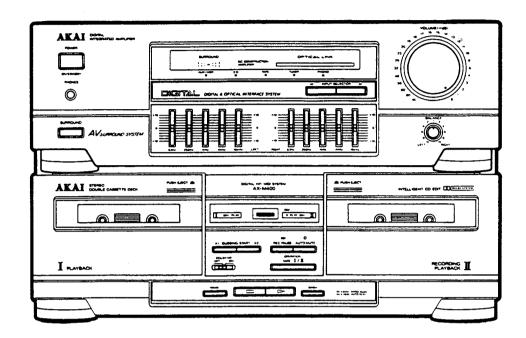
AKAI SERVICE MANUAL



DIGITAL HIFI MIDI SYSTEM

MODEL AX-M400

SPECIFICATIONS

[AMPLIFIER section] Power output	[GENERAL] Power requirements AC 220 V, 50 Hz for Europe except UK
[CASSETTE DECK section] Frequency responce Normal tape	Standard accessories Remote control unit

- * For improvement purposes, specifications and design are subject to change without notice.
- * Noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and DI symbol are trademarks of Dolby Licensing Corporation.

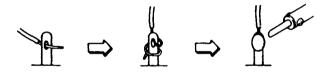
PRECAUTIONS DURING SERVICING

- 1. Parts identified by the 🗘 (*) symbol are critical for safety. Replace only with parts number specified.
- In addition to safety, other parts and assemblies are specified for conformance with such regulations as those applying to spurious radiation.

These must also be replaced only with specified replacements.

Examples: RF converters, tuner units, antenna selector switches, RF cables, noise blocking capacitors, noise blocking filters, etc.

- 3. Use specified internal wiring. Note especially:
 - 1) Wires covered with PVC tubing
 - 2) Double insulated wires
 - 3) High voltage leads
- 4. Use specified insulating materials for hazardous live parts. Note especially:
 - 1) Insulation Tape
 - 2) PVC tubing
 - 3) Spacers (Insulating Barriers)
 - 4) Insulation sheets for transistors
 - 5) Plastic screws for fixing microswitch (especially in turntable)
- When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.), wrap ends of wires securely about the terminals before soldering.



Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.).

- Check that replaced wires do not contact sharp edged or pointed parts.
- 8. Also check areas surrounding repaired locations.
- Use care that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

SAFETYCHECKAFTERSERVICING

After servicing, make measurements of leakage-current or resistance in order to determine that exposed parts are acceptably insulated from the supply circuit.

The leakage-current measurement should be done between accessible metal parts (such as chassis, ground terminal, microphone jacks, signal-input/output connectors, etc.) and the earth ground through a resister of 1500 ohms paralleled with a 0.15 μ F capacitor, under the unit's normal working conditions. The leakage-current should be less than 0.5 mA rms AC.

The resistance measurement should be done between accessible exposed metal parts and power cord plug prongs with the power switch (if included) "ON". The resistance should be more than 2.2 Mohms.

MAKE YOUR CONTRIBUTION TO PROTECT THE ENVIRONMENT

Used batteries with the ISO symbol for recycling as well as small accumulators (rechargeable batteries), mini-batteries (cells) and starter batteries should not be thrown into the garbage can.



Please leave them at an appropriate depot. All other household batteries can be thrown out with the household waste.

★INFORMATION

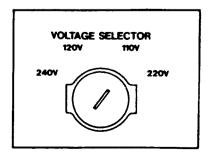
SYMBOLS FOR PRIMARY DESTINATION

Alphabet indicates the destination of the units as listed below.

Symbols	Principal Destinations	
В	UK	
E	Europe (except UK)	
S	Australia	
V	W. Germany only	
U	Universal Area	
Y*	Custom version	

VOLTAGECONVERSION(Modelonly)

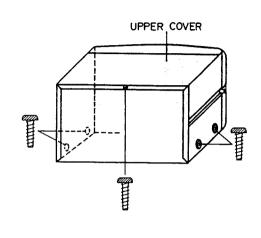
Before connecting the power cord. Set the VOLTAGE SE-LECTOR located on the rear panel so that the correct voltage for your area is indicated.



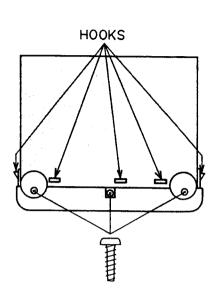
I. DISASSEMBLY

In case of trouble, etc., necessitating dismantling, please dismantle in the order shown in the illustrations. Reassemble in reverse order.

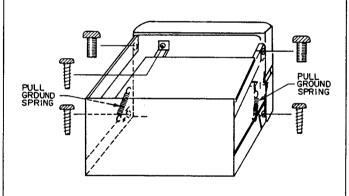
Removal of UPPER COVER



3.

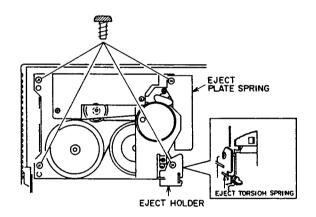


2. Removal of the FRONT PANEL BLOCK



- 1) Remove the PULL GROUND SPRINGS.
- Disconnect all the wire's connectors from the FRONT PANEL BLOCK.
- 3) Remove five screws.

4. Removal of the CASSETTE MECHA BLOCK



- 1) Unhook the EJECT TORSION SPRING.
- 2) Remove the four MECHA BLK fixation screws.

PRECAUTION BEFORE/AFTER REPAIRING THE UNIT

[ABOUT THE POWER SUPPLY]

Power supply of the AX-M400 is controlled by the tuner. Therefore when repair

of the AX-M400 is necessary, repair should be made together with the tuner.

To repair the AX-M400 without tuner, use the following procedure.

- 1) While pushing the PLAY (▷) button, press the POWER button to turn the power of the AX-M400 on.
- To turn off the power of the AX-M400 the AC power cord must be disconnected.

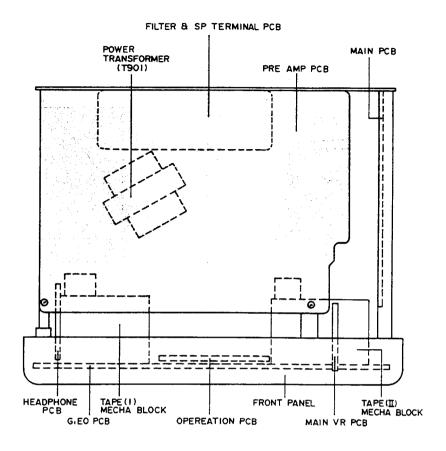


Fig. 2-1 Top view

III. MECHANICAL ADJUSTMENT

[PRECAUTIONS]

- * Before adjustment, clean and dimagnetize the heads and tape guides.
- * Do not use the magnetized tools for following adjustments.

3-1. CONFIRMATION OF THE WINDING TOR-QUE IN EACH MODE

Insert a CASSETTE TORQUE METER(AT-751179) and measure the torque in each mode.

For fast foward and rewind, measure the torque at the end of the tape when tape stopped running.

[PLAYBACK mode]

Take up torque: 35 to 75 g-cm Back tension torque: 2 to 6 g-cm

[FAST FOWARD and REWIND mode]

Take up torque: 70 to 160 g-cm

3-2. ADJUSTMENT OF THE REC/PB HEAD AZIMUTH ALIGNMENT

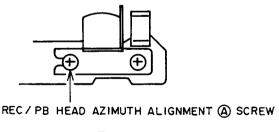


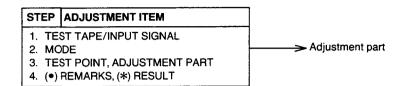
Fig.3-1

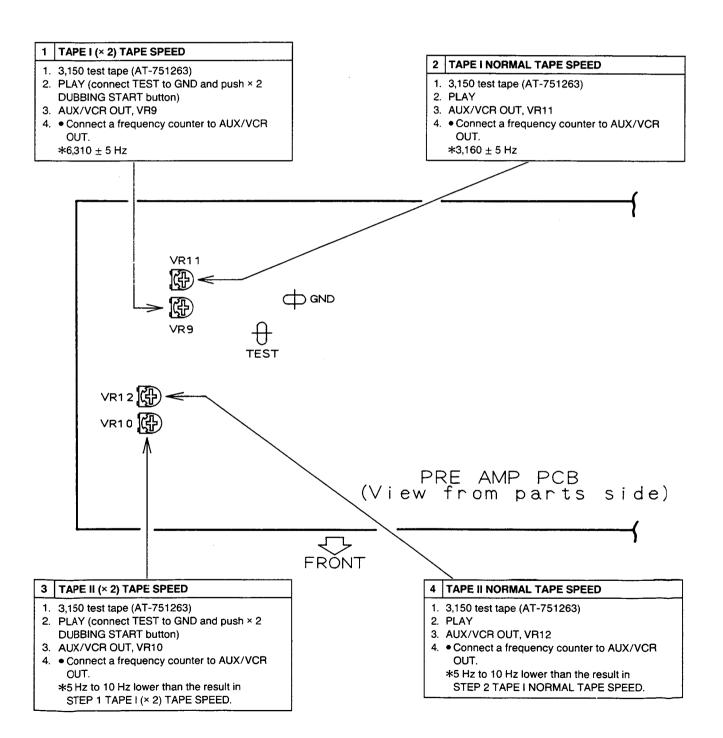
- Connect the AC milli-voltmeters to L-ch and R-ch of the AUX/VCR OUT and connect the oscilloscope's input CH-1 and CH-2 to output of the AC milli-voltmeters.
- 2) Play back a 10 kHz, -15 VU test tape(AT-750778) and adjust the REC/PB HEAD AZIMUTH ALIGNMENT ® SCREW so that the reading on the AC milli-voltmeters are at maximum and waveforms on the oscilloscope are in the same phase.
- 3) After adjustment, paint lock the REC/PB HEAD AZI-MUTH ALIGNMENT @ SCREW.

IV. ELECTRICAL ADJUSTMENT

[PRECAUTIONS BEFORE ADJUSTMENT]

1. Before adjustment, clean and de-magnetize heads and tape guides.





ATTENTION

- 1. When placing an order for parts, be sure to list Part No., Model No. and the description of eachpart. Otherwise, the non-delivery of the part or the delivery of a wrong part may result.
- 2. Please make sure that Part No. is correct when ordering.

 If not, a part different from the one you ordered may be delivered.
- 3. Since the parts shown in Parts List of Preliminary Service Manual may have been the subject of changes, please use this Parts List for all future reference.

HOW TO USE THIS PARTS LIST

- 1. This Parts List lists those parts which are considered necessary for repairs. Other common parts, such as resistors and capacitors, are listed in the "Common List for Service Parts" from which these parts should be selected and stocked.
- 2. The Recommended Spare Parts List shows those parts in the Parts List which are considered particularly important for service.
- 3. Parts not shown in the Parts List and "Common List for Service Parts" will not in principle be supplied.
- 4. How to read the Parts List.
 - a) Mechanism Block

Ref.No. Part No.

2. HEAD BASE BLOCK

1	BH-T2023A	20A HEAD BASE BLOCK
2	HP-H2206A	10A HEAD R/P PR4-8FU C
3	ZS-477876	PAN20×03STL CMT
4	ZS-536488	BID20×08STL CMT
5	ZG-402895	SP CS ANGLE ADJUST
<u></u>	1	
		SP (Service Parts) Classification
		This number corresponds with the individual parts index number in that figure.
		ıal parts index number in that figu

Description

b) PC Board

6. MAIN PC BOARD

Ref.No.	Part No.	Description
IC1 IC2 C1A C1B C1C X1	EI-324536 EI-336801 EC-338399 EC-350949 EC-338397 EI-318384	IC HD14049BP IC MB8841-564M C MMY V 223M 250AC [U,E,B,S] C MMY V 223M 250DC [J] C MMY V 223M 125AC [C,A] OSC X'TAL NC-18C
N	[A]: AAL (U.S [B]: BEAB (E [C]: CSA (Ca [E]: CEE (Eu	r primary destination S.A) [S]: SAA (Australia) England) [U]: U/T (Universa Area) anada) urope) [V]: VDE (W. Germany) nan) [Y]: Custom Version
	SP (Ser	rvice Parts) Classification
	with co	reference symbols correspond mponent symbols in the atic Diagrams.

The available PC Board Blocks are listed separately.

WARNING

 Δ (*) INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURE'S RECOMMENDED PARTS.

AVERTISSEMENT

△ (*) IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉDE L'APPAREIL, NE REMPLACER QUE DES PIÉCES RECOMMANDEES PAR LÉ FABRICANT.

1.RECOMMENDED SPARE PARTS

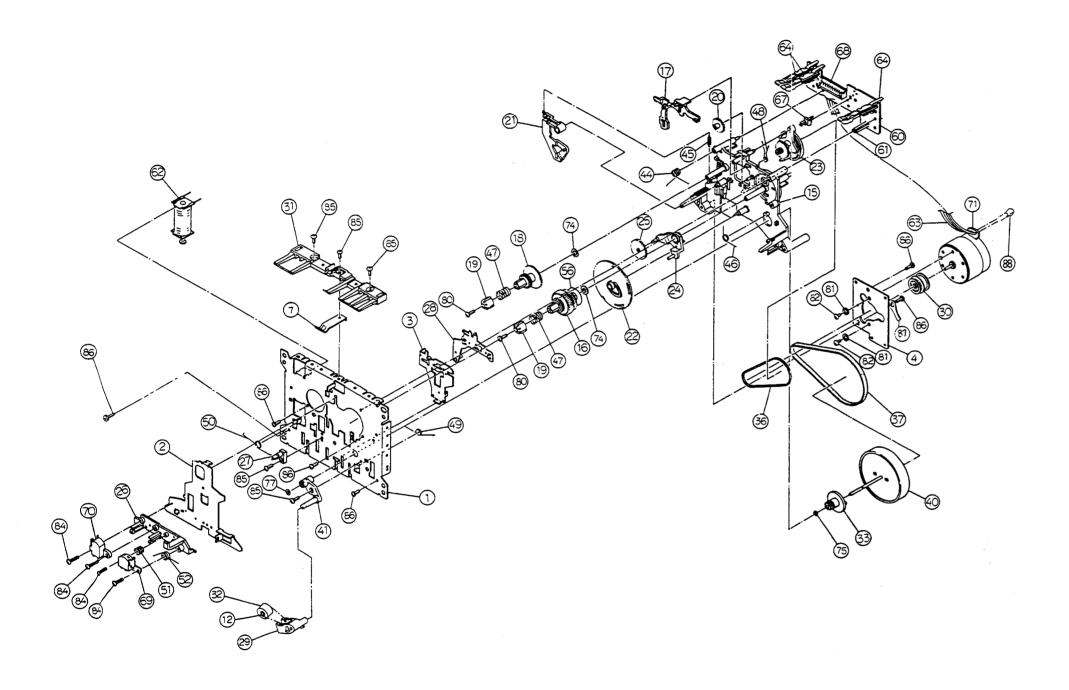
We suggest you to stock the following Recommended Spare Part items listed below since they can cover most of the routine service.

Ref.No.	Part No.	Description
1	BB-394690M	MECHA GAK-5PB-1
2	BB-394691M	MECHA GAK-5RP
3	BM-732433M	MOTOR EG-530KD-2B
4 5	*BT-394695M *BT-394693M	TRANS POW C1026-BS TRANS POW C1026-EV
6	*BT-394692M	TRANS POW C1026-U
7	ED-394723J	D LED GL3HY44 YELLOW
8	ED-389638J	D LED GL3HY47 YELLOW
9	ED-382365J	D LED SLR-34VC3F RED
10 11	ED-394416J *ED-357036	D LED SLV-31VT3F RED D SILICON DBA20B-K15 100/ 2.0A
12	ED-307572	D SILICON H 1SS131
13	ED-624903	D SILICON H 1S2473
14	*ED-394708J	D SILICON RBA402 200/4.0A
15	*ED-389840J	D SILICON 1SR139-100HS F10
16 17	ED-391003J ED-364033	D ZENER H HZ\$4C3 D ZENER H HZ\$6.8B3J F05
18	ED-346558	D ZENER H HZ12B1L
19	ED-346560	D ZENER H HZ12B3L
20	ED-346627	D ZENER H HZ33 2
21	ED-309069	D ZENER H HZ6 B2
22 23	ED-307610 ED-346604	D ZENER H HZ7 A2 D ZENER H HZ7 B2
24	*EF-355398	FUSE BET T 250V 2.00A
_		[U]
25	*EF-359225	FUSE BET T 250V 3.15A
26	*EF-359086	FUSE BET T 250V 4.00A
27 28	*EF-355374 *EF-358974	FUSE BET T 250V 500MA FUSE BET T 250V 630MA
29	*EF-601964	FUSE SEMKO T 250V 1.60A
30	EI-367572	IC BA15218
31	EI-360585	IC BU4051B
32	El-389322J	IC CXA1101P
33 34	EI-394572J EI-394574J	IC CXA1115BP IC LA2000
35	EI-359053	IC LA3600
36	El-337008	IC LC7800
37	El-361133	IC MC14053B
38 39	EI-393325J EI-390594J	IC M5218AP IC PD0052
40	El-381024J	IC SM5807EP
41	*EI-394709J	IC STK4142-2
42	El-377101	IC UPC7805HF
43	El-394518J	IC UPD6376CX
44 45	EI-395039J EI-373957J1	IC UPD75108CW FXAMPDK2-B63 OSC CE CST4.19MGW 4.194MHZ
46	EJ-394442J	SOCKET 52303-1211 12P
47	EJ-394445J	SOCKET 52303-1411 14P
48	*EO-376998J	COIL LF LF-2C17-02
49 50	EO-393710J *EQ-394450J	COIL OSC 1 C1026 100.0KHZ RELAY POW DG12D1-O(M) 12V
30	4-EQ-0544500	[U]
51	*ER-328278	R FUSE H ERD2FC 1/4W 10R0G
52	*ER-200746	R FUSE H ERD2FC 1/4W 1000G
53 54	ES-732430M ES-732429M	SW LEAF LSA-1114F SW LEAF LSA-1146-2AU
55	ES-394914J	SW PUSH SPUL12 4-M3.2 2-04-02S
		[SURROUND SW]
56	*ES-349070	SW SELECTOR YKS11-0002 02-4
57 50	ES-390620J	SW SLIDE SSSF 01-02N
58 59	ES-349367 ES-394818J	SW TACT SKHHAK003A SW TACT SOR-123HS T05
60	ET-732427M	DETECTOR NJL5165K
61	ET-356336	TR DTA114ES
62	ET-369248	TR DTA114YS
63 64	ET-373382	TR DTA144ES
64 65	ET-354415 ET-353897	TR DTA144ES TR DTC114ES
66	ET-360399	TR DTC114ES
67	ET-354365	TR DTC114YS
68	ET-354371	TR DTC124ES
69 70	ET-373392 ET-364060	TR DTC142ES
, 0	E1-304000	TR DTC143ES

Ref.No.	Part No.	Description
71	ET-354364	TR DTC143TS
72	ET-373391	TR DTC143ZS
73	ET-354414	TR DTC144ES
		[U]
74	ET-394570J	TR 2SA1038 S T05
75	ET-353899	TR 2SA1317 S,T,U
76	ET-352726	TR 2SA1392 T,U
77	ET-389803J	TR 2SA933S R,S
78	ET-366365	TR 2SB1185 E,F
79	ET-389251J	TR 2SC1740S S F05
80	ET-397156J	TR 2SC2274K E,F
81	ET-394571J	TR 2SC2389 S,E T05
82	ET-397160J	TR 2SC3330 R,S,T,U,V
83	ET-397152J	TR 2SC3382 T,U
84	ET-378524J	TR 2SC3383 S,T,U
85	ET-366581	TR 2SD1762 E,F
86	ET-385916J	TR 2SD2159 U,V F05
87	EV-394517J	VR ROTARY RK11K113 SPCL W104
88	EV-394721J	VR SLIDE RS20H113D B104
89	EV-394458J	VR SPL RK16Y12MA A104X2
90	HE-732432M	HEAD E LE15A-C1
		[R/PB MECHA BLOCK]
91	HR-732431M	HEAD RP MS15R-AA2N4
92	MB-732415M	CLUTCH BELT (C)
93	MB-732416M	DRIVE BELT
94	MP-732411M	PINCH ROLLER

---- PARTS LIST -----

MECHA BLOCK (GAK-5PB-1, GAK-5RP)



__ DADTS II

2. MECHA BLOCK (GAK-5PB-1, GAK-5RP)

Ref.No.	Part No.	Description
7	ZG-732392M	PACK SPRING
12	MS-732393M	P ROLLER SHAFT
16	MT-732394M	REEL ASSY (T)
17	ML-732395M	BRAKE ARM
18	MT-732396M	REEL (S)
19	MT-732397M	REEL CAP (B)
20	MZ-732398M	FF GEAR
22	MZ-732401M	PLAY CAM GEAR
23	MZ-732402M	CLUTCH ASSY
25	MZ-732404M	PLAY GEAR
26	HZ-732405M	HEAD BASE
30	MR-732409M	MOTOR PULLEY (C)
32	MP-732411M	PINCH ROLLER
33	MZ-732412M	FLYWHEEL GEAR
36	MB-732415M	CLUTCH BELT (C)
37	MB-732416M	DRIVE BELT
40	MI-732417M	FLYWHEEL
41	MV-732418M	HOUSING ASSY
47	ZG-732421M	REEL SPRING
51	ZG-726027J	SP HEAD (RP)
52	ZG-732425M	P ROLLER SPRING
56	MZ-732426M	REFLECT SEAL
61	ET-732427M	DETECTOR NJL5165K
62	EP-732428M	SOLENOID ASSY
64	ES-732429M	SW LEAF LSA-1146-2AU
67	ES-732430M	SW LEAF LSA-1114F
69	HR-732431M	HEAD RP MS15R-AA2N4
70	HE-732432M	HEAD E LE15A-C1
71	BM-732433M	MOTOR EG-530KD-2B
75	ZW-726629J	PSW21X040X025
77	ZW-725589J	PSW16X060X050
80	ZS-732434M	SCREW 1.7X6SPL
85	ZS-725379J	T2BID20X04

NOTE:

Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

3. P.C BOARD

Ref.No.	Part No.	Description
1	BA-C1026A020A	PC(#) MAIN BLK AX-M400(U)
2	BA-C1026A020B	PC(#) MAIN BLK AX-M400(E)
3	BA-C1026A020C	PC(#) MAIN BLK AX-M400(V)
4	BA-C1026A030A	PC PRE AMP BLK AX-M400(U)
5	BA-C1026A030B	PC PRE AMP BLK AX-M400(V)
6	BA-C1026A040A	PC(#) GEQ BLK AX-M400
7	BA-C1026A080A	PC OPERATION BLK AX-M400

PC (#) MAIN P.C BOARD CONTENTS OF FOLLOWING P.C BOARD.

- MAIN P.C BOARD
- FILTER & SP TERMINAL P.C BOARD
- HEADPHONE P.C BOARD

PC (#) GEQ BLK P.C BOARD CONTENTS OF FOLLOWING P.C BOARD.

- GEQP.C BOARD
- MAIN VR P.C BOARD

4. MAIN AMP P.C BOARD

Part No.

Description

Ref.No.

D1 D2 D3 D4 D5 D6 D7 D8 D9 D10 D112 D13 D14 D15 D16 D17 D18 D20 D21 D22 D23 D24 D28 F1 F2 F3 F6 F7 F8 FR12 FR13 FR33 C1 L2 P21 P22 R23 R34 R39 TR2 TR8 TR9 TR10 TR8 TR10 TR8 TR10 TR8 TR10 TR8 TR10 TR10 TR10 TR10 TR10 TR10	*ED-394708J *ED-389840J *ED-389840J *ED-389840J *ED-389840J ED-346560 ED-346558 *ED-389840J *ED-389840J *ED-389840J *ED-37572 ED-307572 ED-307572 ED-307572 ED-307572 ED-307572 ED-307572 ED-346560 *ED-389840J *ED-389860B *EF-355374 *EF-359086 *EF-359086 *EF-3597186 *EF-358974 *EF-358974 *EF-358974 *EF-358974 *EF-358974 *EF-359225 *ER-200746 *ER-328278 *ER-32	D SILICON RBA402 200/4.0A D SILICON 1SR139-100HS F10 D SILICON 1SR139-100HS F10 D SILICON 1SR139-100HS F10 D SILICON 1SR139-100HS F10 D ZENER H HZ12B3L D ZENER H HZ12B1L D SILICON 1SR139-100HS F10 D ZENER H HZ3 2 D ZENER H HZ3 2 D ZENER H HZ7 A2 D SILICON H 1SS131 D ZENER H HZ12B3L D SILICON 1SR139-100HS F10 FUSE BET T 250V 4.00A FUSE BET T 250V 4.00A FUSE BET T 250V 5.00MA FUSE BET T 250V 5.00MA FUSE BET T 250V 3.15A FUSE H ERD2FC 1/4W 1000G R FUSE H ERD2FC 1/4W 1000G R FUSE H ERD2FC 1/4W 1000G R FUSE H ERD2FC 1/4W 10R0G IC STK4142-2 IC UPC7805HF COIL FIX 2 202AK-018 2R2K COIL FIX 2 202AK-01
TR8	ET-366581	TR 2SD1762 E,F
TR12	ET-354414	TR DTC124AS
		[U]
TR13	ET-397152J	TR 2SC3382 T,U [U]
TR14	ET-354371	TR DTC144ES
TR15 TR16	ET-354414 ET-356336	TR DTC144ES TR DTA114ES
TR17	ET-378524J	TR 2SC3383 S,T,U
TR18	ET-356336	TR DTA114ES
TR19	ET-354414	TR DTC144ES
TR20	ET-354365	TR DTC114YS

5. PRE AMP P.C BOARD		Ref.No.	Part No.	Description	
	D- 11.	Describation .	TR29	ET-397160J	TR 2SC3330 R,S,T,U,V
Ref.No.	Part No.	Description	TR30	ET-397160J	TR 2SC3330 R,S,T,U,V
D1	ED-364033	D ZENER H HZ\$6.8B3J F05	TR31	ET-397160J	TR 2SC3330 R,S,T,U,V
D2	ED-364033	D ZENER H HZS6.8B3J F05	TR32 TR33	ET-397160J ET-397160J	TR 2SC3330 R,S,T,U,V TR 2SC3330 R,S,T,U,V
D3	ED-307572	D SILICON H 1SS131	TR34	ET-354364	TR DTC143TS
D4	ED-624903	D SILICON H 1S2473	TR35	ET-354364	TR DTC143TS
D5	ED-307572	D SILICON H 1SS131	TR36	ET-354364	TR DTC143TS
D6	ED-307572	D SILICON H 1SS131	TR37	ET-354364	TR DTC143TS
D7	ED-309069	D ZENER H HZ6 B2	TR38	ET-354364	TR DTC143TS
D8	ED-307572	D SILICON H 1SS131	TR39	ET-354364	TR DTC143TS
D9	ED-307572	D SILICON H 1SS131	TR40	ET-397160J	TR 2SC3330 R,S,T,U,V
D10	ED-307572	D SILICON H 1SS131	TR41	ET-397160J	TR 2SC3330 R,S,T,U,V
D11	ED-307572	D SILICON H 1SS131	TR42	ET-394571J	TR 2SC2389 S,E T05
D12	ED-307572	D SILICON H 188131	TR43	ET-394571J	TR 2SC2389 S,E T05
D13 D14	ED-307572 ED-391003J	D SILICON H 1SS131 D ZENER H HZS4C3	TR44	ET-394571J	TR 2SC2389 S,E T05
D15	ED-389840J	D SILICON 1SR139-100HS F10	TR45	ET-394571J	TR 2SC2389 S,E T05
D16	ED-389840J	D SILICON 1SR139-100HS F10	TR46	ET-394570J	TR 2SA1038 S T05
D17	ED-307572	D SILICON H 1SS131	TR47	ET-373392	TR DTC124XS
D18	ED-307572	D SILICON H 1SS131	TR48	ET-373392	TR DTC124XS
D19	ED-307572	D SILICON H 1SS131	TR49	ET-397156J	TR 2SC2274K E,F
D20	ED-624903	D SILICON H 1S2473	TR50 TR51	ET-360399 ET-397160J	TR DTC114TS TR 2SC3330 R,S,T,U,V
D21	ED-307572	D SILICON H 1SS131	TR52	ET-366581	TR 2SC3330 H,S,1,0,V
D22	ED-307572	D SILICON H 1SS131	TR53	ET-397160J	TR 2SC3330 R.S.T.U.V
D23	ED-307572	D SILICON H 1SS131	TR54	ET-397160J	TR 2SC3330 R,S,T,U,V
D24	ED-624903	D SILICON H 1S2473	TR55	ET-373391	TR DTC143ZS
D25	ED-624903	D SILICON H 1S2473	TR56	ET-354365	TR DTC114YS
D26	ED-307572	D SILICON H 1SS131	TR57	ET-354365	TR DTC114YS
D27	ED-307572	D SILICON H 1SS131	TR58	ET-360399	TR DTC114TS
D28	ED-389840J	D SILICON 1SR139-100HS F10	TR59	ET-352726	TR 2SA1392 T,U
D29	ED-307572	D SILICON H 188131	TR60	ET-353899	TR 2SA1317 S,T,U
L3 L4	EO-356809 EO-356809	COIL TUN 1 100Z-121 100.00KHZ COIL TUN 1 100Z-121 100.00KHZ	TR61	ET-353899	TR 2SA1317 S,T,U
L5	EO-356809	COIL TUN 1 100Z-121 100.00KHZ	TR62	ET-397160J	TR 2SC3330 R,S,T,U,V
L6	EO-356809	COIL TUN 1 100Z-121 100.00KHZ	TR63	ET-397160J	TR 2SC3330 R,S,T,U,V
IC1	El-367572	IC BA15218	TR64	ET-397160J	TR 2SC3330 R,S,T,U,V
IC2	EI-360585	IC BU4051B	TR65	ET-356336	TR DTA114ES
IC3	EI-360585	IC BU4051B	TR66	ET-397160J	TR 2SC3330 R,S,T,U,V
IC4	El-367572	IC BA15218	TR67 TR68	ET-385916J ET-385916J	TR 2SD2159 U,V F05 TR 2SD2159 U,V F05
IC5	El-361133	IC MC14053B	TR69	ET-385916J	TR 2SD2159 U,V F05
IC6	EI-390594J	IC PD0052	TR70	ET-354414	TR DTC144ES
IC7	El-381024J	IC SM5807EP	TR71	ET-354414	TR DTC144ES
IC8	El-394518J	IC UPD6376CX	TR72	ET-356336	TR DTA114ES
IC9	El-393325J	IC M5218AP	TR73	ET-373382	TR DTA143ZS
IC10	El-394572J	IC CXA1115BP	TR74	ET-373382	TR DTA143ZS
IC11 IC12	EI-394574J EI-389322J	IC LA2000 IC CXA1101P	TR75	ET-373382	TR DTA143ZS
Cl13	EI-3695225 EI-367572	IC BA15218	TR76	ET-373382	TR DTA143ZS
IC14	EI-395039J	IC UPD75108CW FXAMPDK2-B63	TR77	ET-373382	TR DTA143ZS
IC15	El-337008	IC LC7800	TR78	ET-373382	TR DTA143ZS
J1	EJ-394459J	SOCKET OPTICAL GP1F32R	TR79	ET-373382	TR DTA143ZS
J2	EJ-394438J	PIN J YKC21-3050 SEALED 6P	TR80 TR81	ET-373382 ET-353897	TR DTA143ZS TR DTC114ES
L1	EO-393709J	COIL FIX3 E1472T822J 822J/472K	TR82	ET-356336	TR DTA114ES
L2	EO-393709J	COIL FIX3 E1472T822J 822J/472K	TR83	ET-364060	TR DTC143ES
L10	EH-388140J	FILTER EMI BL02RN1-R62	TR84	ET-378524J	TR 2SC3383 S,T,U
TR1	ET-352726	TR 2SA1392 T,U	TR85	ET-354365	TR DTC114YS
TR2	ET-354414	TR DTC144ES	TR87	ET-352726	TR 2SA1392 T,U
TR3	ET-356336	TR DTA114ES	TR89	ET-353897	TR DTC114ES
TR4 TR5	ET-354414	TR DTC144ES TR DTC114ES	TR90	ET-397156J	TR 2SC2274K E,F
TR6	ET-353897 ET-353897	TR DTC114ES	TR91	ET-356336	TR DTA114ES
TR7	ET-354415	TR DTA144ES	TR92	ET-353897	TR DTC114ES
TR8	ET-378524J	TR 2SC3383 S,T,U	TR93	ET-397160J	TR 2SC3330 R,S,T,U,V
TR9	ET-378524J	TR 2SC3383 S,T,U	TR94	ET-397160J	TR 2SC3330 R,S,T,U,V
TR10	ET-378524J	TR 2SC3383 S,T,U	TR95	ET-356336	TR DTA114ES
TR11	ET-378524J	TR 2SC3383 S,T,U	TR96 TR97	ET-354414 ET-353897	TR DTC144ES TR DTC114ES
TR12	ET-373392	TR DTC124XS	T1	EO-393710J	COIL OSC 1 C1026 100.0KHZ
TR13	ET-373392	TR DTC124XS	VR9	EV-394561J	R S-FIX H V8K4-11(1S) 0.10W102
TR15	ET-373392	TR DTC124XS	VR10	EV-394561J	R S-FIX H V8K4-11(1S) 0.10W102
TR16	ET-373392	TR DTC124XS	VR11	EV-367524	R S-FIX H V8K4-11(1S) 0.10W501
TR17	ET-354364	TR DTC143TS	VR12	EV-367524	R S-FIX H V8K4-11(1S) 0.10W501
TR18	ET-354364	TR DTC143TS	X1	El-373957J1	OSC CE CST4.19MGW 4.194MHZ
TR19 TR20	ET-360399	TR DTC114TS			
TR21	ET-360399 ET-360399	TR DTC114TS TR DTC114TS			
TR22	ET-360399	TR DTC114TS			
TR23	ET-397160J	TR 2SC3330 R,S,T,U,V			
TR24	ET-397160J	TR 2SC3330 R,S,T,U,V			
TR25	ET-369248	TR DTA114YS			
TR26	ET-397160J	TR 2SC3330 R,S,T,U,V			
TR27	ET-397160J	TR 2SC3330 R,S,T,U,V			
TR28	ET-397160J	TR 2SC3330 R,S,T,U,V			
		DADTO	LICT		

6. GEQ P.C BOARD

Ref.No.	Part No.	Description
D1 D2 D3	ED-394416J ED-394416J ED-394416J	D LED SLV-31VT3F RED D LED SLV-31VT3F RED D LED SLV-31VT3F RED
D3 D4	ED-394416J	D LED SLV-31VT3F RED
D5	ED-394723J	D LED GL3HY44 YELLOW
D6	ED-394723J	D LED GL3HY44 YELLOW
D7	ED-394723J	D LED GL3HY44 YELLOW
D8	ED-394723J	D LED GL3HY44 YELLOW
D9	ED-394723J	D LED GL3HY44 YELLOW
D10	ED-389638J	D LED GL3HY47 YELLOW
D11 D12	ED-389638J	D LED GL3HY47 YELLOW D LED GL3HY47 YELLOW
D12	ED-389638J ED-389638J	D LED GL3HY47 YELLOW
D15	ED-389638J	D LED GL3HY47 YELLOW
IC1	El-359053	IC LA3600
IC2	El-359053	IC LA3600
TR1	ET-354414	TR DTC144ES
TR2	ET-356336	TR DTA114ES
TR3	ET-378524J	TR 2SC3383 S,T,U
TR4	ET-378524J	TR 2SC3383 S,T,U
TR5	ET-373382	TR DTA143ZS
TR6	ET-373382	TR DTA143ZS
TR7	ET-373382	TR DTA143ZS
TR8 TR9	ET-373382 ET-373382	TR DTA143ZS TR DTA143ZS
TR10	ET-373382	TR DTA143ZS
TR12	ET-373382	TR DTA143ZS
TR13	ET-373382	TR DTA143ZS
SW1	ES-349367	SW TACT SKHHAK003A
SW2	ES-349367	SW TACT SKHHAK003A
SW3	ES-349367	SW TACT SKHHAK003A
VR1	EV-394721J	VR SLIDE RS20H113D B104
VR2	EV-394721J	VR SLIDE RS20H113D B104
VR3	EV-394721J	VR SLIDE RS20H113D B104
VR4	EV-394721J	VR SLIDE RS20H113D B104
VR5 VR6	EV-394721J	VR SLIDE RS20H113D B104 VR SLIDE RS20H113D B104
VR6 VR7	EV-394721J EV-394721J	VR SLIDE RS20H113D B104 VR SLIDE RS20H113D B104
VR8	EV-394721J	VR SLIDE RS20H113D B104
VR9	EV-394721J	VR SLIDE RS20H113D B104
VR10	EV-394721J	VR SLIDE RS20H113D B104
VR11	EV-394517J	VR ROTARY RK11K113 SPCL W104

7. OPERATION P.C BOARD

Ref.No.	Part No.	Description
D801	ED-394723J	D LED GL3HY44 YELLOW
D802	ED-394723J	D LED GL3HY44 YELLOW
D805	ED-394723J	D LED GL3HY44 YELLOW
D806	ED-394723J	D LED GL3HY44 YELLOW
D808	ED-382365J	D LED SLR-34VC3F RED
D809	ED-394723J	D LED GL3HY44 YELLOW
D810	ED-394723J	D LED GL3HY44 YELLOW
D811	ED-382365J	D LED SLR-34VC3F RED
D812	ED-382365J	D LED SLR-34VC3F RED
D813	ED-394723J	D LED GL3HY44 YELLOW
SW801	ES-390620J	SW SLIDE SSSF 01-02N
TS804	ES-394818J	SW TACT SOR-123HS T05
TS805	ES-394818J	SW TACT SOR-123HS T05
TS806	ES-394818J	SW TACT SOR-123HS T05
TS807	ES-394818J	SW TACT SOR-123HS T05
T\$808	ES-394818J	SW TACT SOR-123HS T05
TS809	ES-394818J	SW TACT SOR-123HS T05
T\$810	ES-394818J	SW TACT SOR-123HS T05
TS811	ES-394818J	SW TACT SOR-123HS T05
TS812	ES-394818J	SW TACT SOR-123HS T05

8. FILTER & SP TERMINAL P.C BOARD

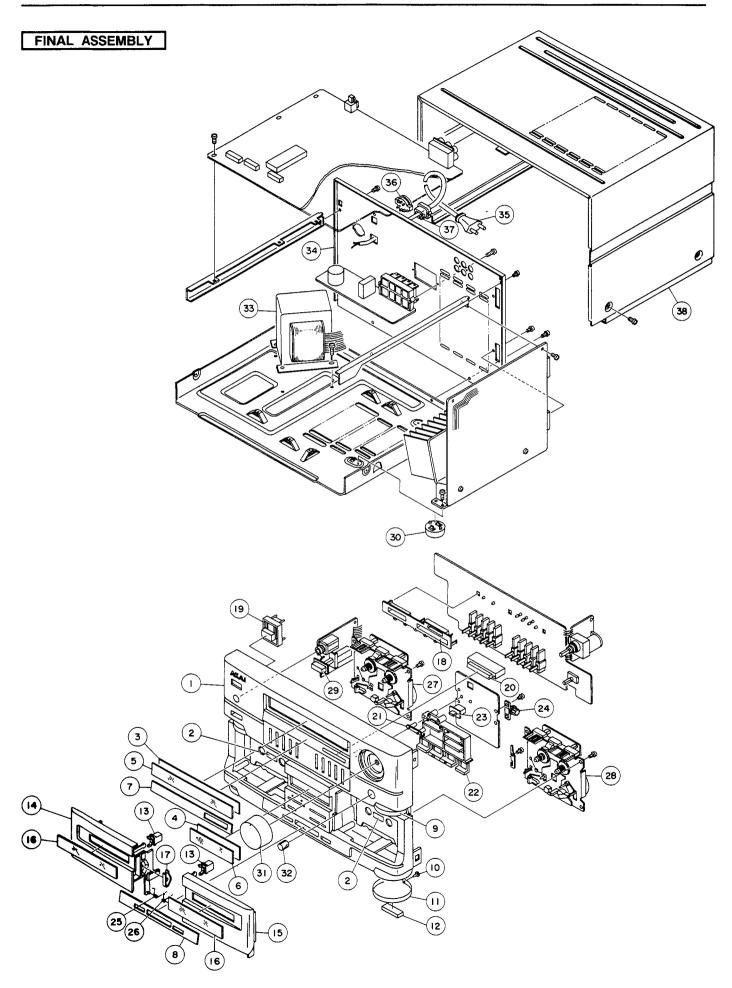
Ref.No.	Part No.	Description
D25	ED-307572	D SILICON H 1SS131 [U]
D27	ED-307572	D SILICON H 1SS131 (U)
F10	*EF-355398	FUSE BET T 250V 2.00A
F11	*EF-355398	FUSE BET T 250V 2.00A
FL1	*EO-376998J	COIL LF LF-2C17-02
RL1	*EQ-394450J	RELAY POW DG12D1-O(M) 12V [U]
TM1	EJ-394713J	TERMINAL *C1026-2 8P
TM2	*EJ-394711J	SOCKET OUT M7039-A 1P [U]

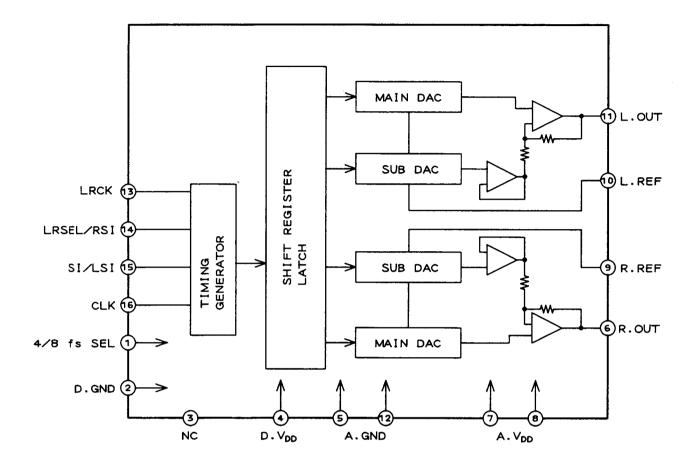
9. HEADPHONE P.C BOARD

Ref.No.	Part No.	Description
J1 SW1	EJ-394455J ES-394914J	PHONE J 3P YKB21-5006 6.3 SW PUSH SPUL12 4-M3.2 2-04-02S [SURROUND SW]

10. MAIN VR P.C BOARD

Ref.No.	Part No.	Description
TR14	ET-353899	TR 2SA1317 S,T,U
TR15	ET-353899	TR 2SA1317 S,T,U
TR16	ET-397160J	TR 2SC3330 R,S,T,U,V
TR17	ET-397160J	TR 2SC3330 R,S,T,U,V
VR12	EV-394458J	VR SPL RK16Y12MA A104X2





PIN NO.	PORT NAME	1/0	ACTIVE	DESCRIPTION	
1	SLIT-2	IN	L	TAPE 2 Reel pulse input.	
2	SLIT-1	IN	L	TAPE 1 Reel pulse input.	
3	XBUSI-D	IN	L	DATA in put (TUNER/CD).	
4	XBUSI-C	IN	L	CLOCK in put (TUNER/CD).	
5	ВОР	IN	L	Sound detection input. L: No sound	
6	PLL-ER	IN	Н	PLL Error input. H: Error	
7	PLY SW2	IN	L	TAPE 2 Play switch input. L: Play. FF. Rew.	
8	PLY SW1	IN	L	TAPE 1 Play switch input. L: Play. FF. Rew.	
9	ARECSW	IN	L	TAPE 2 Fwd anti-rec switch input.	
10	TEST-S	IN	L	Test mode selection terminal.	
11	XEXPO-3	OUT	L	Select output A for LC7800 input expander.	
12	XEXPO-2	OUT	٦	Select output B for LC7800 input expander.	
13	XEXPO-1	OUT	L	Select output C for LC7800 input expander.	
14	XEXPO-0	OUT	L	Select output D for LC7800 input expander.	
15	XEXPI-3	IN	L	Data input 0 for LC7800 input expander.	
16	XEXPI-2	IN	L	Data input 1 for LC7800 input expander.	
17	XEXPI-1	IN	L	Data input 2 for LC7800 input expander.	
18	XEXPI-0	IN	L	Data input 3 for LC7800 input expander.	
19	FUNC-LA	OUT	L	Output for LED AUX indicator.	
20	FUNC-LC	OUT	L	Output for LED CD indicator.	
21	FUNC-LTP	OUT	L	Output for LED TAPE indicator.	
22	FUNC-LTU	OUT	L	Output for LED TUNER indicator.	
23	FUNC-LP	OUT	L	Output for LED PHONO indicator.	
24	DUBX1-L	OUT	L	Output for LED X1 indicator.	
25	DUBX2-L	OUT	L	Output for LED X2 indicator.	
26	PLAY1-L	OUT	L	Output for LED PLAY indicator.	
27	EDIT-L	OUT	L	Output for LED EDIT indicator.	
28	REC-L	OUT	L	Output for LED REC indicator.	
29	PLAY2-L	OUT	L	Output for LED PLAY indicator.	
30	TAPE2-L	OUT	L	Output for TAPE 2 indicator.	
31	NC	ĺ			
32	VDD			+5 V	
33	OSC	OUT	Н	Bias OSC control. H: OSC ON.	
34	CRD-DW	OUT	Н	Cross down.	
35	VOL-DW	OUT	L	To move main volume down.	
36	VOL-UP	OUT	L	To move main volume up.	
37	RMUT	OUT	Н	TAPE 2 Rec mute.	
38	FUNC-C	OUT	Н	Select output C for function switching by annalog switch.	
39	FUNC-B	OUT	Н	Select output B for function switching by annalog switch.	
40	FUNC-A	OUT	Н	Select output A for function switching by annalog switch.	
41	PMUT	OUT	Н	For muting amp output. H: mute on	
42	X2 PB70	OUT	L	For switching playback EQ. L: X2 speed (70 μs)	
43	X1 PB70	OUT	L	For switching playback EQ. L: Normal speed (70 μs)	
		<u> </u>		X2 speed (120 μs)	
44	PB 12	OUT	 	For switching playback between TAPE 1/2. H: TAPE 1 Playback	
45	RESET	IN	L	Reset input.	
46	X.Tal	-		X'tal OSC	
47	X.Tal	CUT	 .	X'tal OSC	
48	RPB	OUT	L	For switching between REC and PB (TAPE 2).	
49	CRO-UP	OUT	H	Cross up.	
		C1.7=	111		
50	VCOINH	OUT	Н	To stop digital I/O PLL when tuner is selected. H: STOP	
51	VCOINH PLNG-1	OUT	Н	To stop digital I/O PLL when tuner is selected. H: STOP TAPE 1 Plunger output.	
51 52	VCOINH PLNG-1 CAP-1	OUT	H	To stop digital I/O PLL when tuner is selected. H: STOP TAPE 1 Plunger output. For switching capstain speed (TAPE 2). L: X2 speed	
51 52 53	VCOINH PLNG-1 CAP-1 CAP-2	OUT OUT	H L	To stop digital I/O PLL when tuner is selected. H: STOP TAPE 1 Plunger output. For switching capstain speed (TAPE 2). L: X2 speed For switching capstain speed (TAPE 1). L: X2 speed	
51 52 53 54	VCOINH PLNG-1 CAP-1 CAP-2 PLNG-2	OUT OUT OUT	H L L	To stop digital I/O PLL when tuner is selected. H: STOP TAPE 1 Plunger output. For switching capstain speed (TAPE 2). L: X2 speed For switching capstain speed (TAPE 1). L: X2 speed Plunger output (TAPE 2).	
51 52 53 54 55	VCOINH PLNG-1 CAP-1 CAP-2 PLNG-2 PLNG-1	OUT OUT OUT OUT	H L L	To stop digital I/O PLL when tuner is selected. H: STOP TAPE 1 Plunger output. For switching capstain speed (TAPE 2). L: X2 speed For switching capstain speed (TAPE 1). L: X2 speed Plunger output (TAPE 2). Plunger output (TAPE 1).	
51 52 53 54 55 56	VCOINH PLNG-1 CAP-1 CAP-2 PLNG-2 PLNG-1 XBUSO-D	OUT OUT OUT OUT OUT OUT	H L L L	To stop digital I/O PLL when tuner is selected. H: STOP TAPE 1 Plunger output. For switching capstain speed (TAPE 2). L: X2 speed For switching capstain speed (TAPE 1). L: X2 speed Plunger output (TAPE 2). Plunger output (TAPE 1). DATA output (TUNER/CD).	
51 52 53 54 55	VCOINH PLNG-1 CAP-1 CAP-2 PLNG-2 PLNG-1	OUT OUT OUT OUT	H L L	To stop digital I/O PLL when tuner is selected. H: STOP TAPE 1 Plunger output. For switching capstain speed (TAPE 2). L: X2 speed For switching capstain speed (TAPE 1). L: X2 speed Plunger output (TAPE 2). Plunger output (TAPE 1). DATA output (TUNER/CD). CLOCK output (TUNER/CD).	
51 52 53 54 55 56	VCOINH PLNG-1 CAP-1 CAP-2 PLNG-2 PLNG-1 XBUSO-D XBUSO-C	OUT OUT OUT OUT OUT OUT	H L L L	To stop digital I/O PLL when tuner is selected. H: STOP TAPE 1 Plunger output. For switching capstain speed (TAPE 2). L: X2 speed For switching capstain speed (TAPE 1). L: X2 speed Plunger output (TAPE 2). Plunger output (TAPE 1). DATA output (TUNER/CD). CLOCK output (TUNER/CD). To turn power off for un ecessay parts during standby.	
51 52 53 54 55 56 57 58	VCOINH PLNG-1 CAP-1 CAP-2 PLNG-2 PLNG-1 XBUSO-D XBUSO-C STB	OUT OUT OUT OUT OUT OUT OUT OUT OUT	H L L L H	To stop digital I/O PLL when tuner is selected. H: STOP TAPE 1 Plunger output. For switching capstain speed (TAPE 2). L: X2 speed For switching capstain speed (TAPE 1). L: X2 speed Plunger output (TAPE 2). Plunger output (TAPE 1). DATA output (TUNER/CD). CLOCK output (TUNER/CD). To turn power off for un ecessay parts during standby. L: Power on. H: Power standby.	
51 52 53 54 55 56 57 58	VCOINH PLNG-1 CAP-1 CAP-2 PLNG-2 PLNG-1 XBUSO-D XBUSO-C STB TAPE1-L	OUT OUT OUT OUT OUT OUT OUT OUT OUT	H L L L H	To stop digital I/O PLL when tuner is selected. H: STOP TAPE 1 Plunger output. For switching capstain speed (TAPE 2). L: X2 speed For switching capstain speed (TAPE 1). L: X2 speed Plunger output (TAPE 2). Plunger output (TAPE 1). DATA output (TUNER/CD). CLOCK output (TUNER/CD). To turn power off for un ecessay parts during standby. L: Power on. H: Power standby. Output for LED TAPE 1 indicator.	
51 52 53 54 55 56 57 58 59 60	VCOINH PLNG-1 CAP-1 CAP-2 PLNG-2 PLNG-1 XBUSO-D XBUSO-C STB TAPE1-L OPT-L4	OUT	H L L L H H	To stop digital I/O PLL when tuner is selected. H: STOP TAPE 1 Plunger output. For switching capstain speed (TAPE 2). L: X2 speed For switching capstain speed (TAPE 1). L: X2 speed Plunger output (TAPE 2). Plunger output (TAPE 1). DATA output (TUNER/CD). CLOCK output (TUNER/CD). To turn power off for un ecessay parts during standby. L: Power on. H: Power standby. Output for LED TAPE 1 indicator. Output for LED OPTICAL link 1 indicator.	
51 52 53 54 55 56 57 58 59 60 61	VCOINH PLNG-1 CAP-1 CAP-2 PLNG-2 PLNG-1 XBUSO-D XBUSO-C STB TAPE1-L OPT-L4 OPT-L3	OUT	H L L L H H	To stop digital I/O PLL when tuner is selected. H: STOP TAPE 1 Plunger output. For switching capstain speed (TAPE 2). L: X2 speed For switching capstain speed (TAPE 1). L: X2 speed Plunger output (TAPE 2). Plunger output (TAPE 1). DATA output (TUNER/CD). CLOCK output (TUNER/CD). To turn power off for un ecessay parts during standby. L: Power on. H: Power standby. Output for LED TAPE 1 indicator. Output for LED OPTICAL link 1 indicator. Output for LED OPTICAL link 2 indicator.	
51 52 53 54 55 56 57 58 59 60	VCOINH PLNG-1 CAP-1 CAP-2 PLNG-2 PLNG-1 XBUSO-D XBUSO-C STB TAPE1-L OPT-L4	OUT	H L L L H H	To stop digital I/O PLL when tuner is selected. H: STOP TAPE 1 Plunger output. For switching capstain speed (TAPE 2). L: X2 speed For switching capstain speed (TAPE 1). L: X2 speed Plunger output (TAPE 2). Plunger output (TAPE 1). DATA output (TUNER/CD). CLOCK output (TUNER/CD). To turn power off for un ecessay parts during standby. L: Power on. H: Power standby. Output for LED TAPE 1 indicator. Output for LED OPTICAL link 1 indicator.	

AKAI

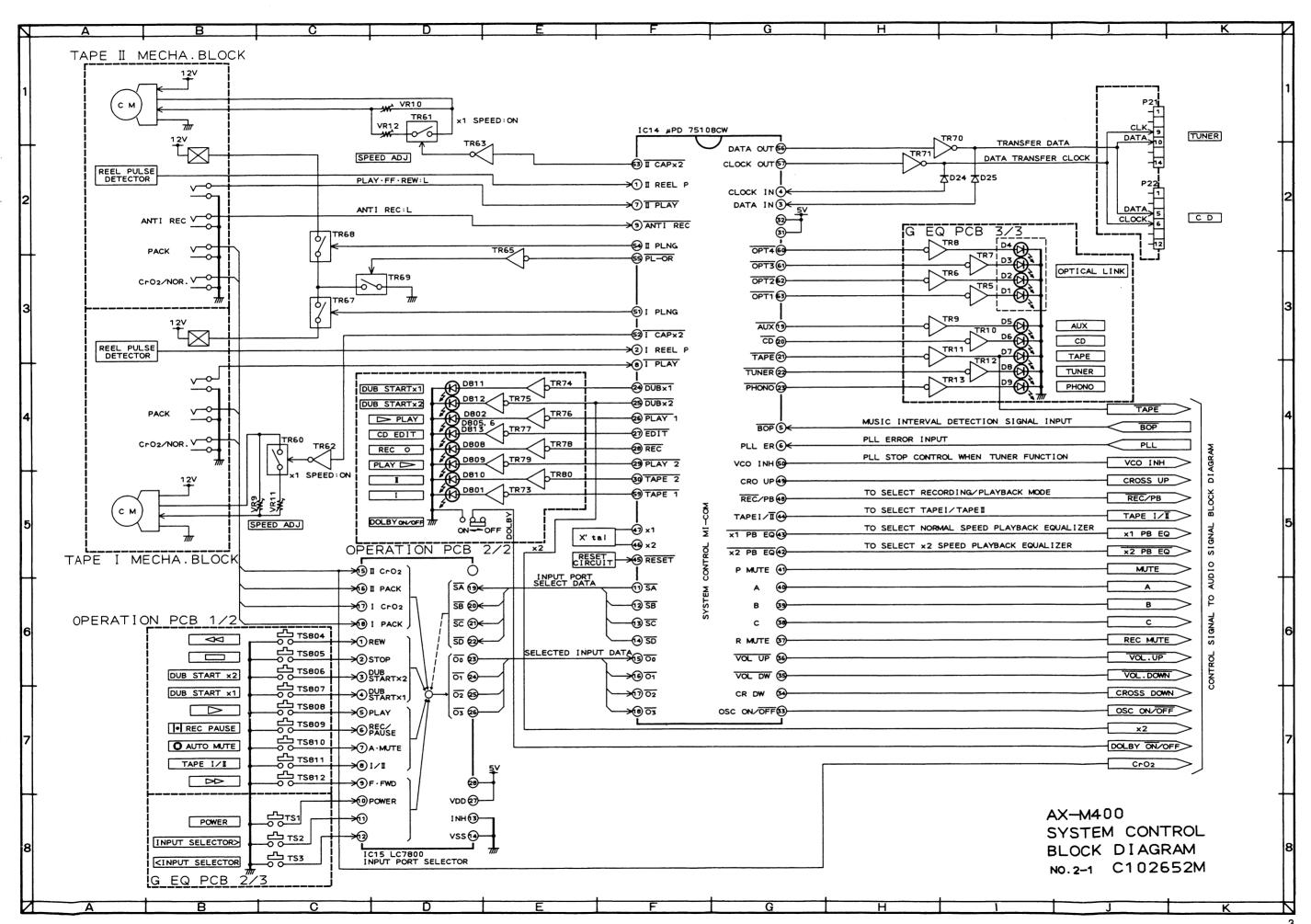
MODEL AX-M400

SCHEMATIC DIAGRAMS AND PC BOARDS

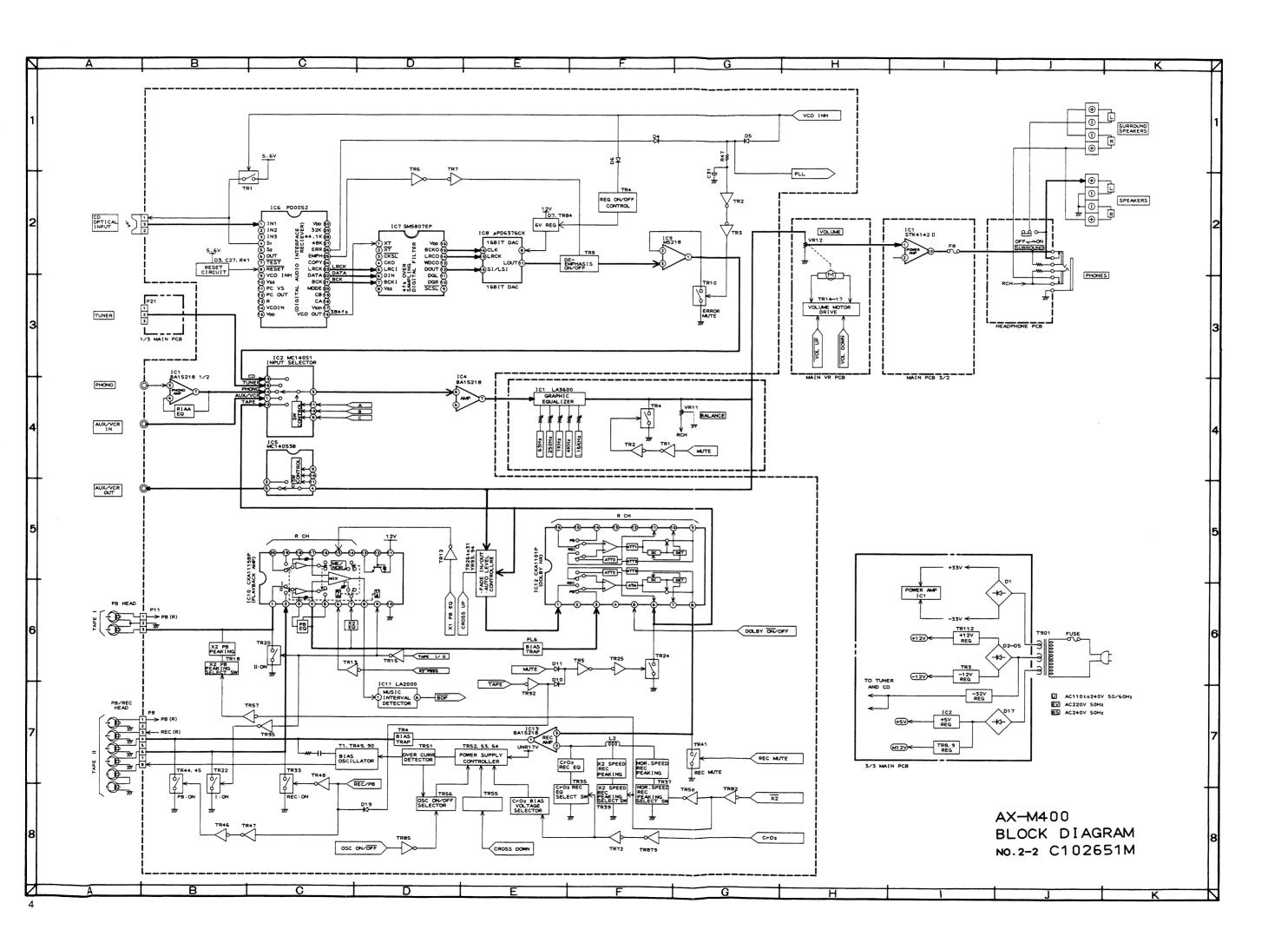
TABLE OF CONTENTS

1.	SYSTEM CONTROL BLOCK DIAGRAM	3
2.	BLOCK DIAGRAM	4
3.	CONNECTION DIAGRAM	5
4.	MAIN SCHEMATIC DIAGRAM	6
5.	MAIN AND OTHER PC BOARDS	7
6.	PRE AMP SCHEMATIC DIAGRAM	8
7.	PRE AMP PCB	9
	GEQ SCHEMATIC DIAGRAM	
9.	GEQ AND OTHER PC BOARDS	11
10.	INFORMATION OF ICs	12

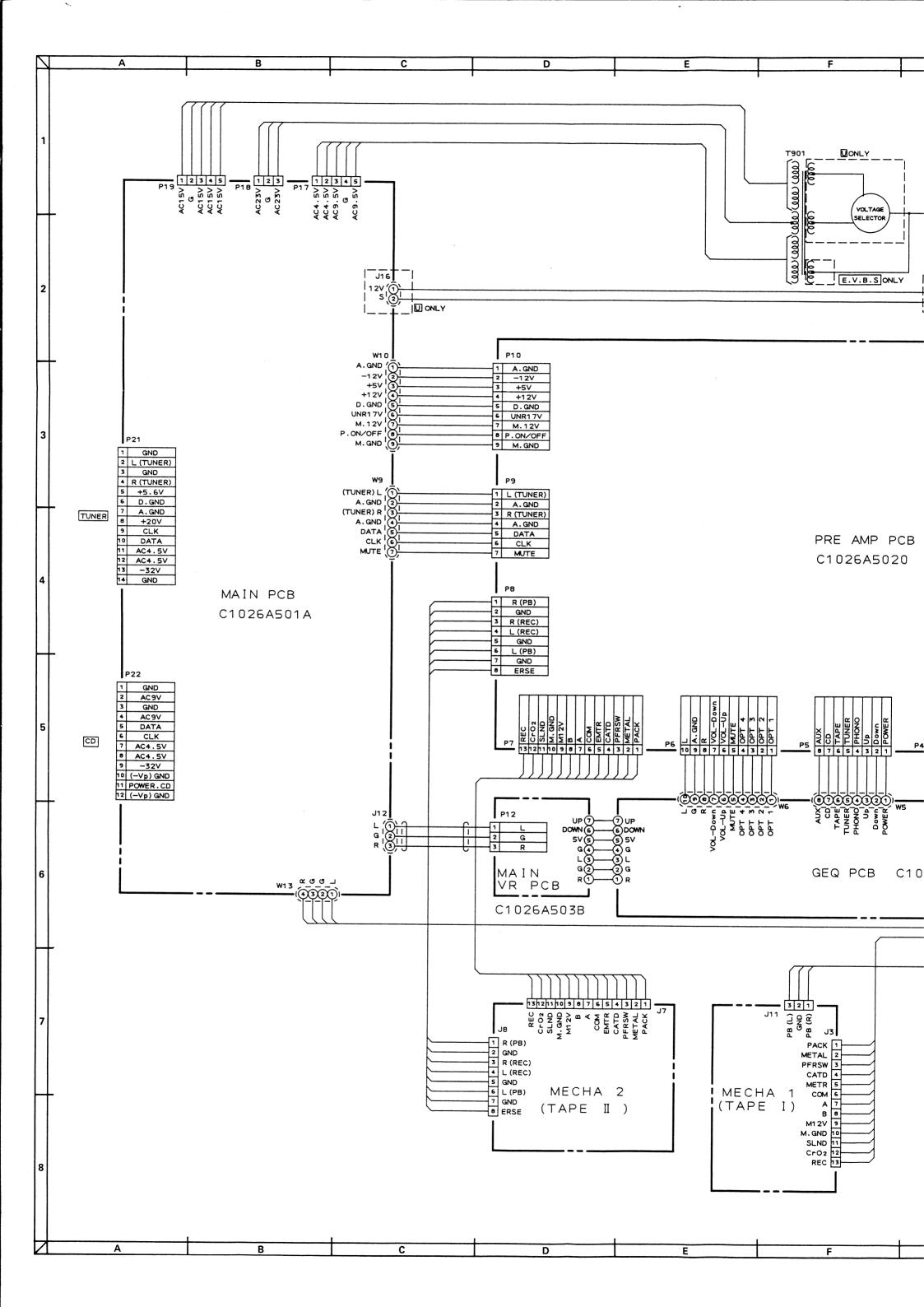


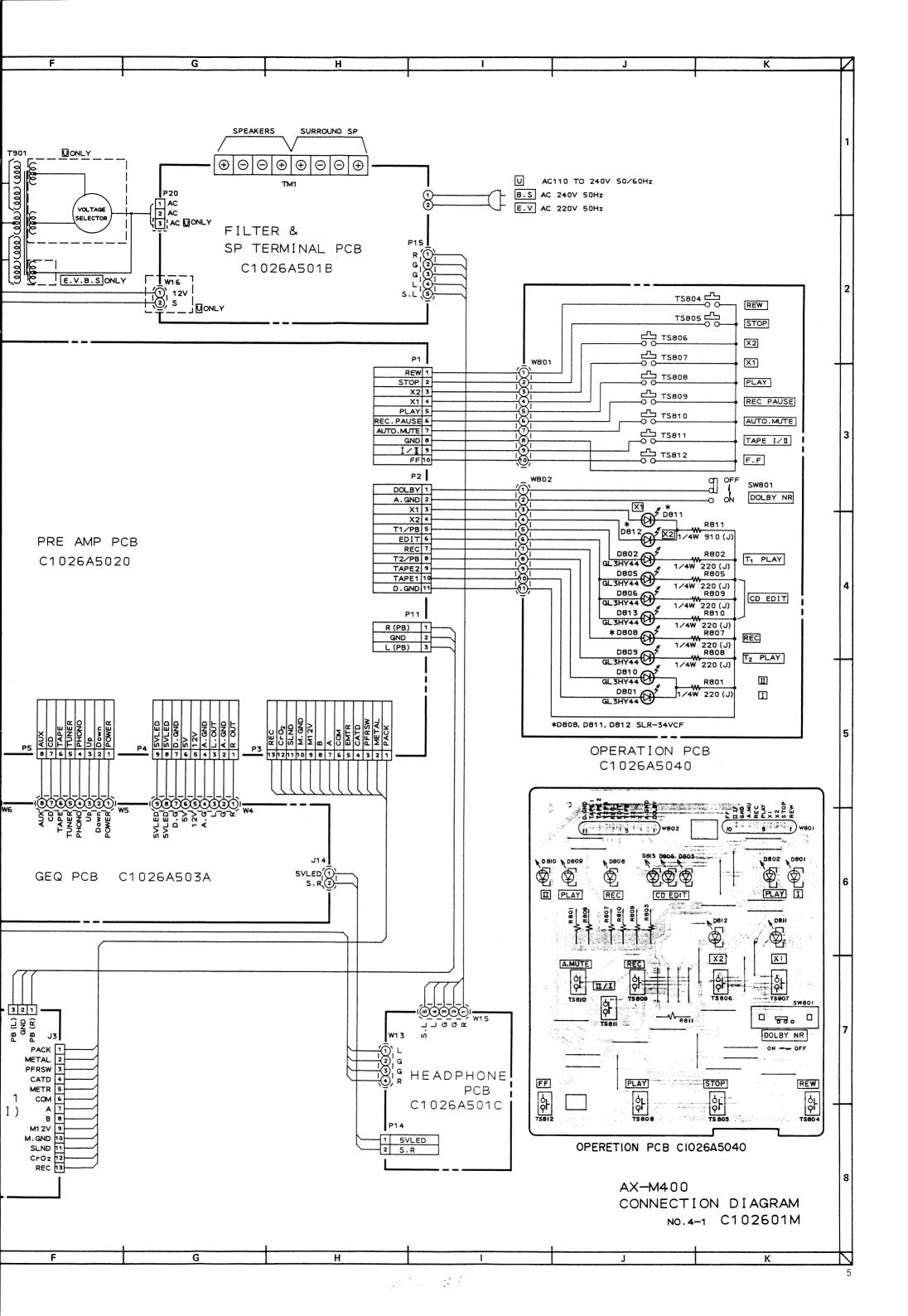


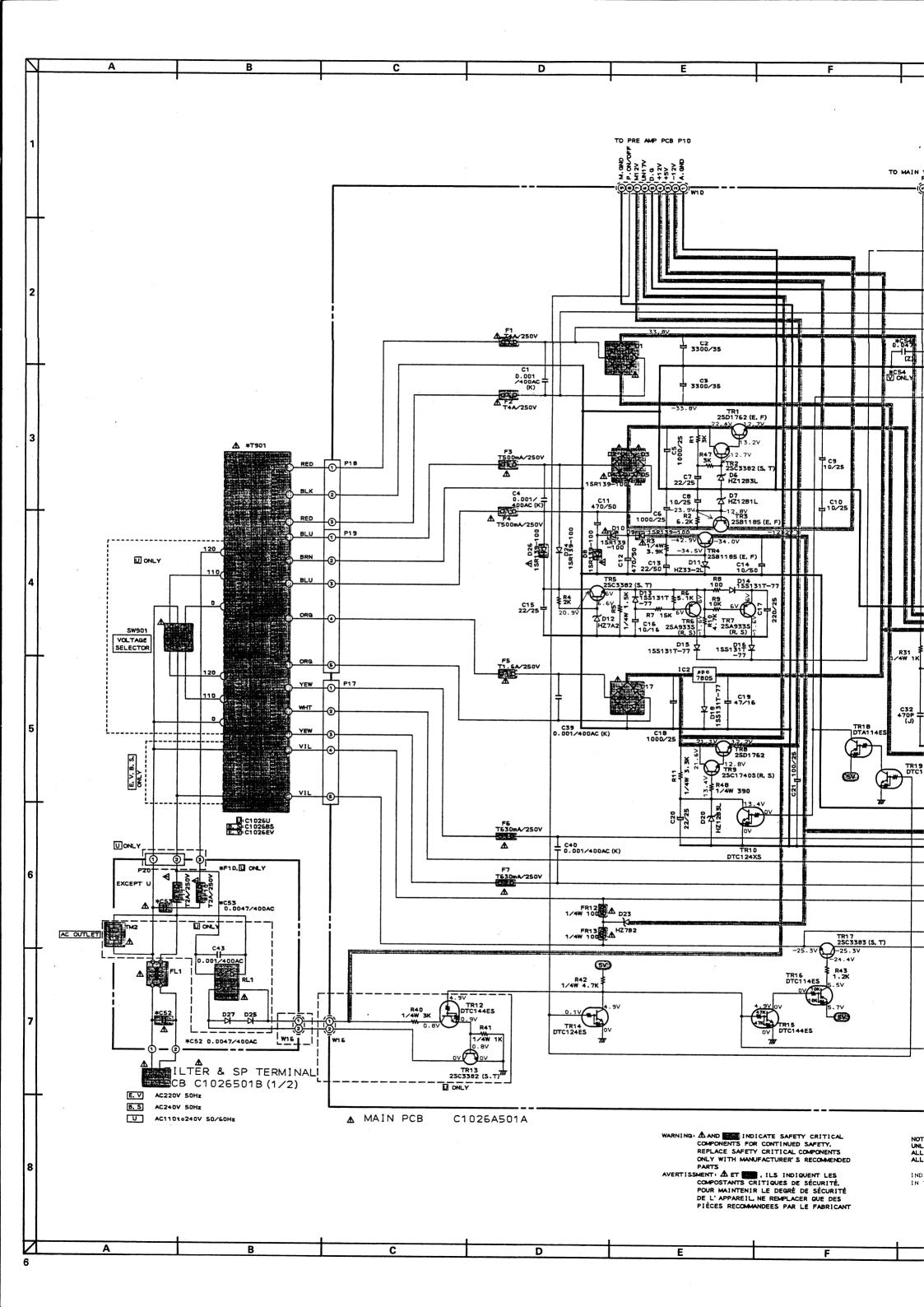
,

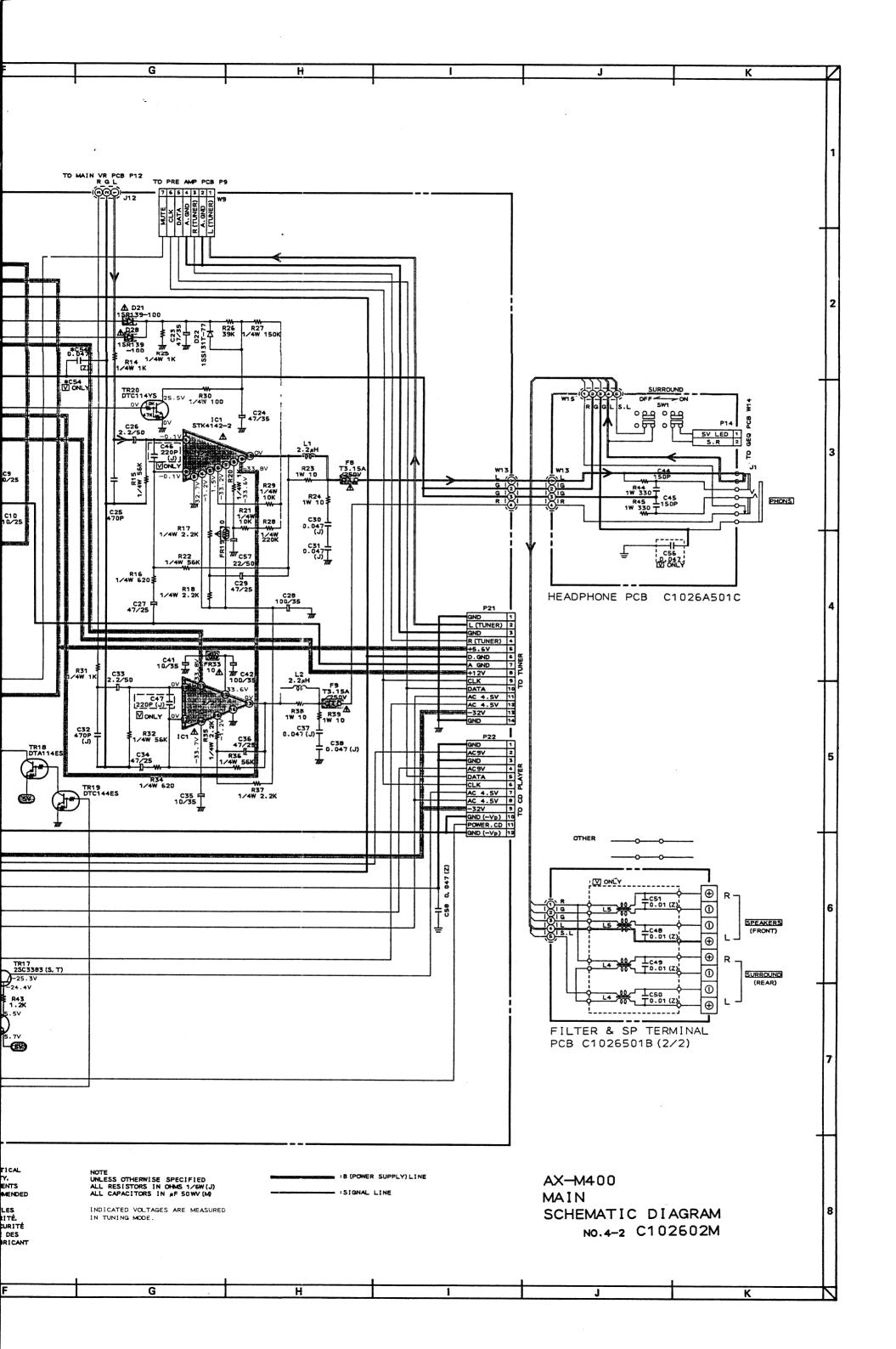


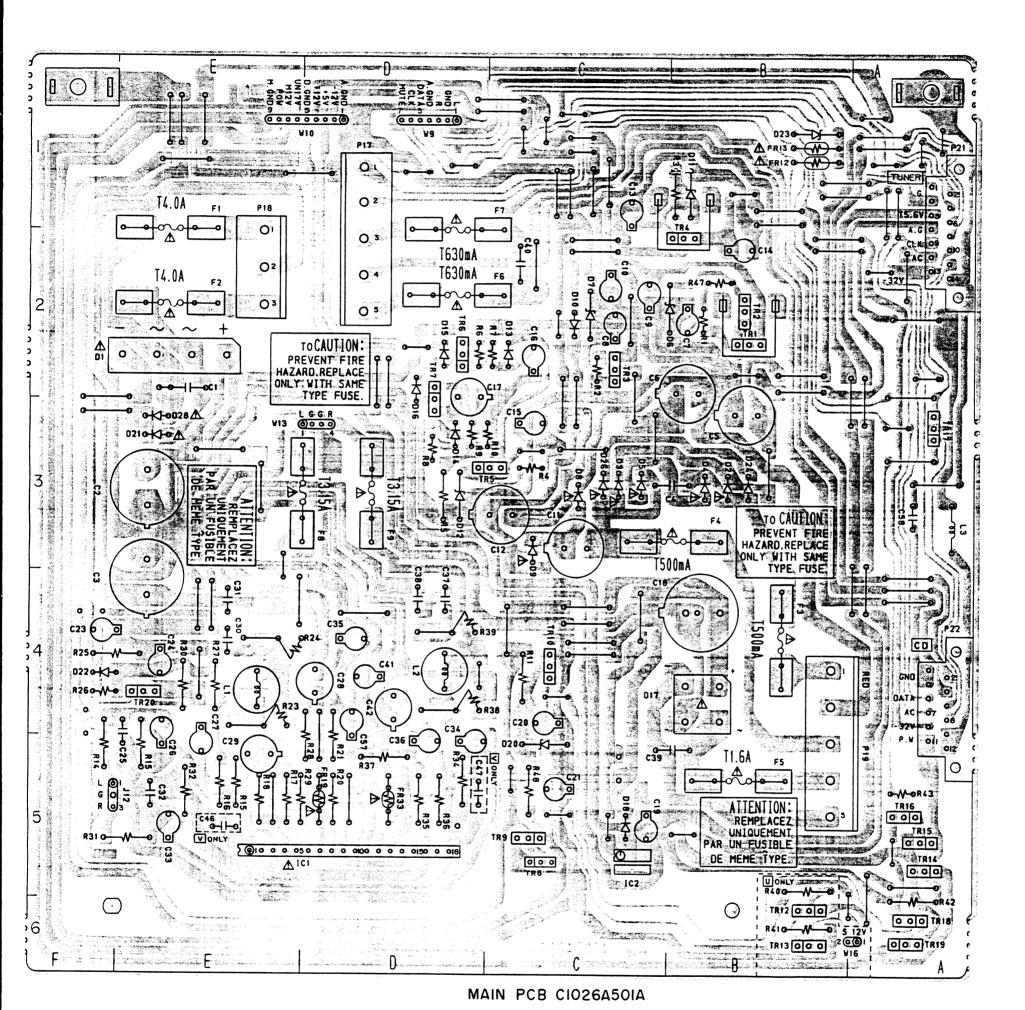
,











C1026A501B

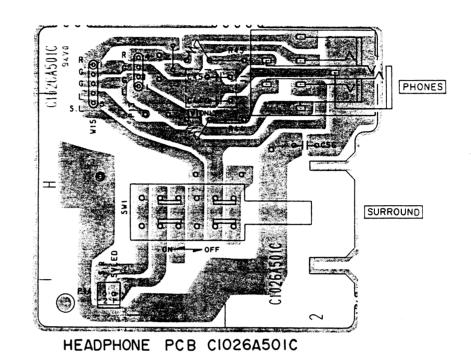
FI

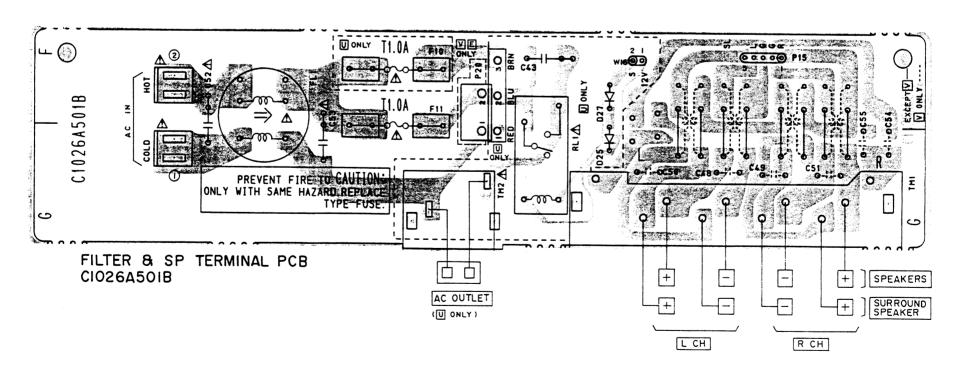
CI

WARNING: ÁINDICATES SAFETY CRITICAL COMPONENTS F REPLACE SAFETY CRITICAL COMPONENTS ONLY RECOMMENDED PARTS AVERTISSEMENT: ÁIL INDIQUE LES COMPOSANTS CRITIQU POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'A NE REMPLACER QUE DES PIÈCES RECOMMANDE

PRINCIPAL PARTS LOCATION

TR20.....E4



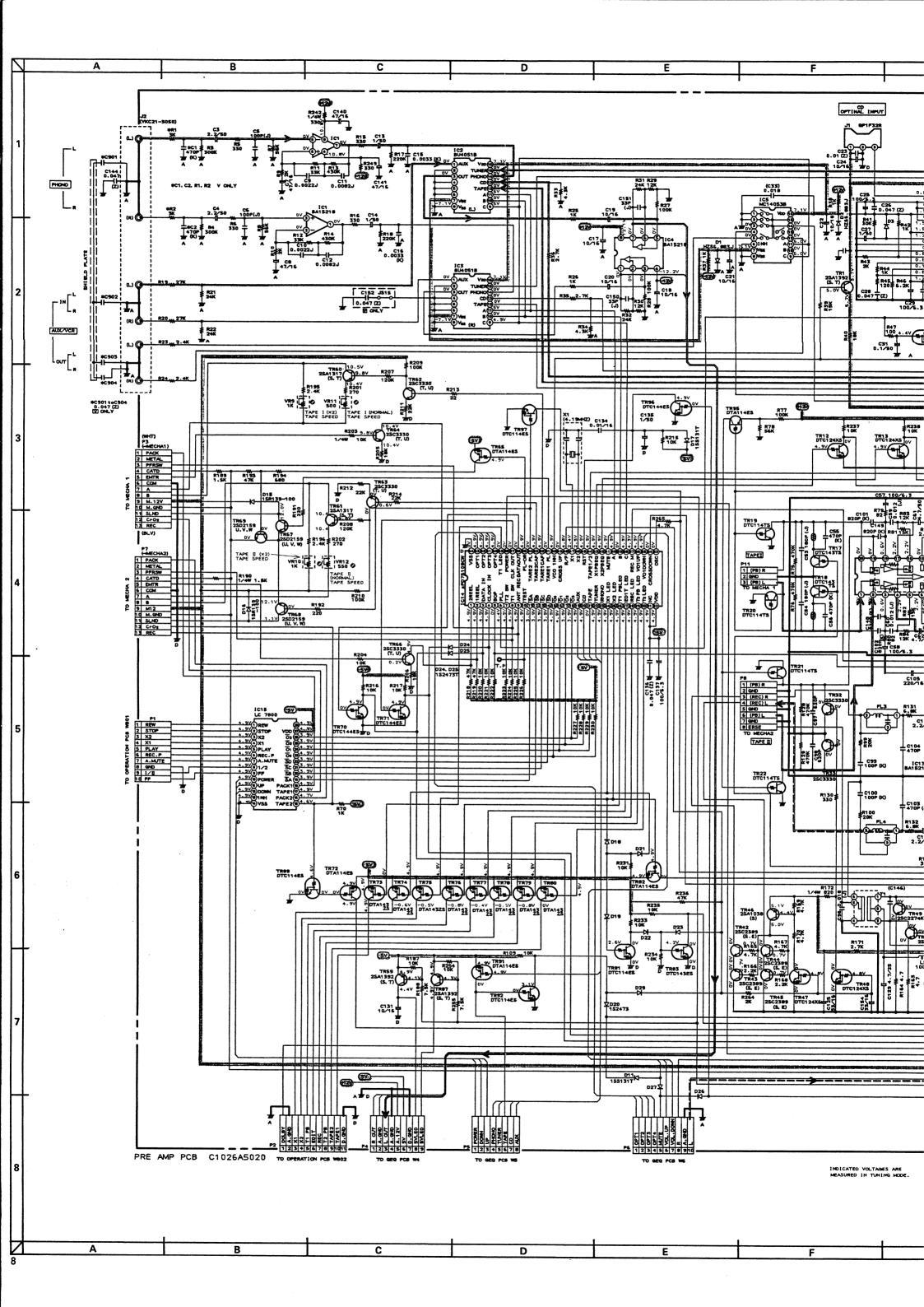


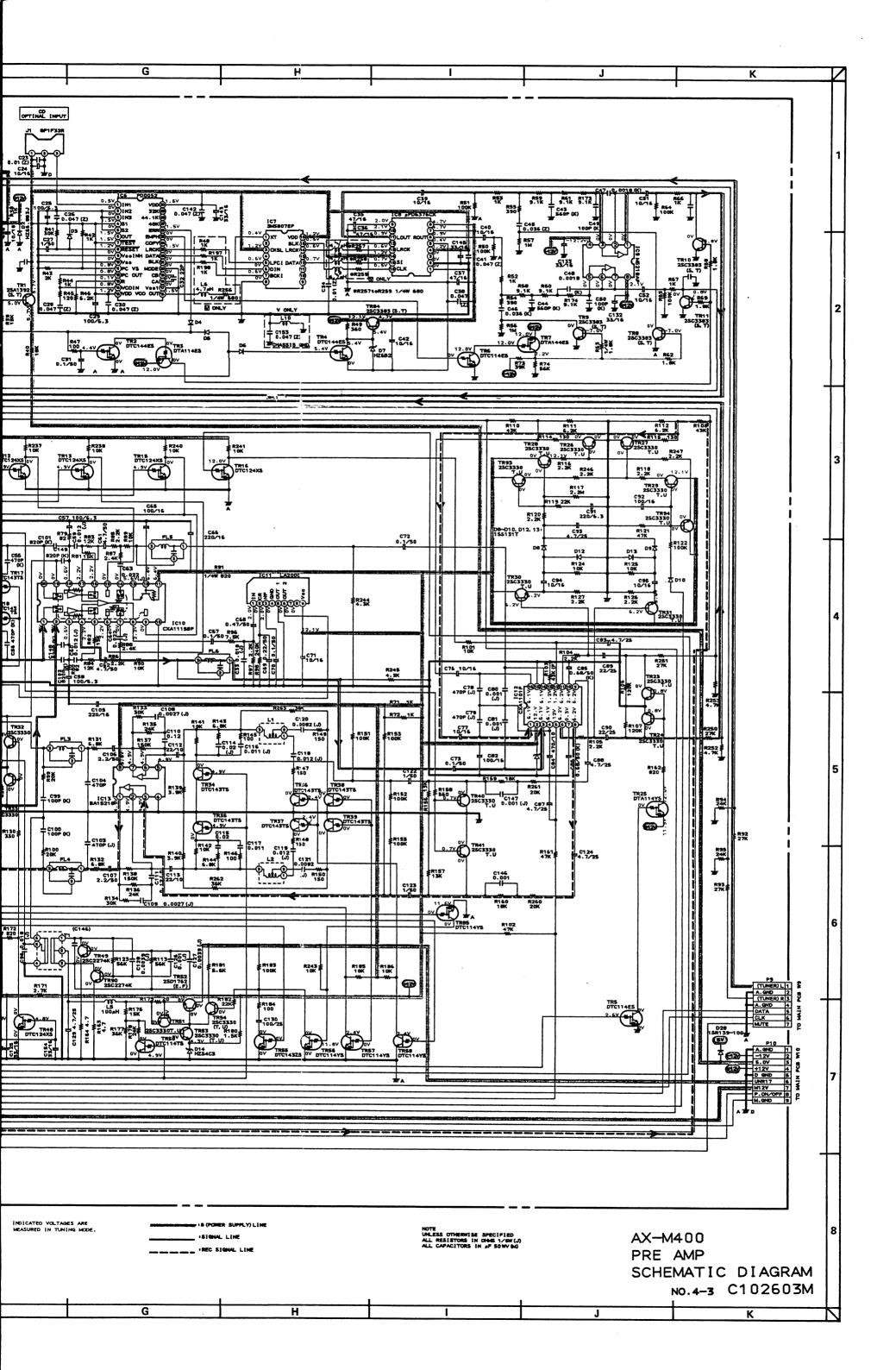
200 77

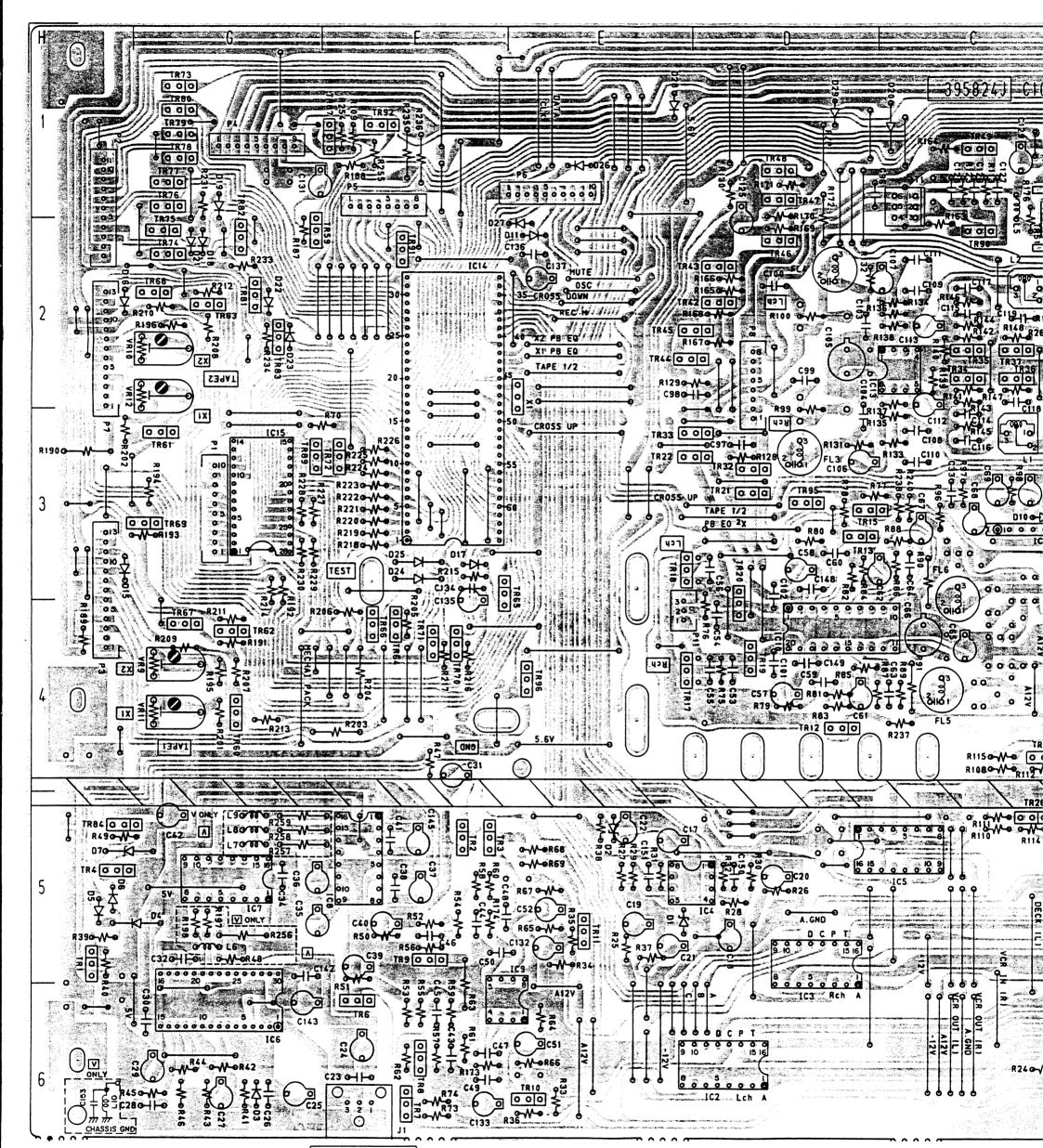
ICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. CE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S MMENDED PARTS

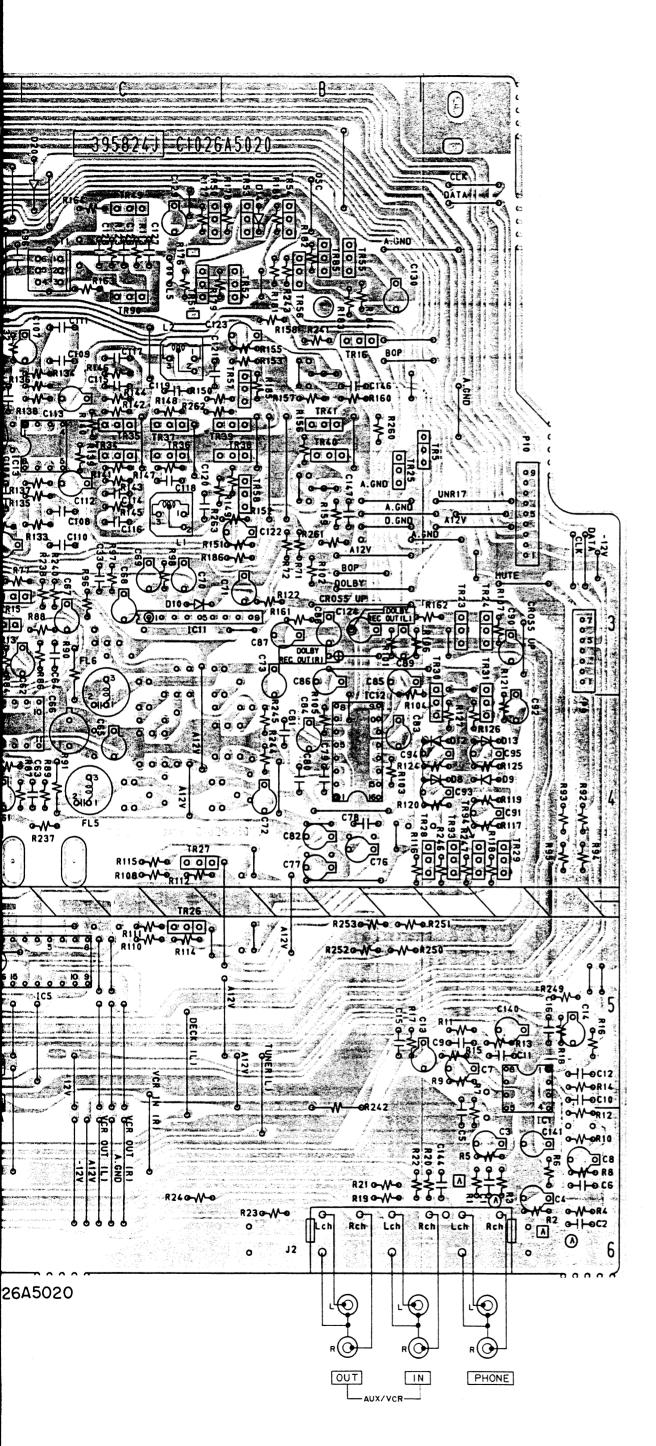
: ÁIL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, MPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

7









PRINCIPAL PARTS LOCATION

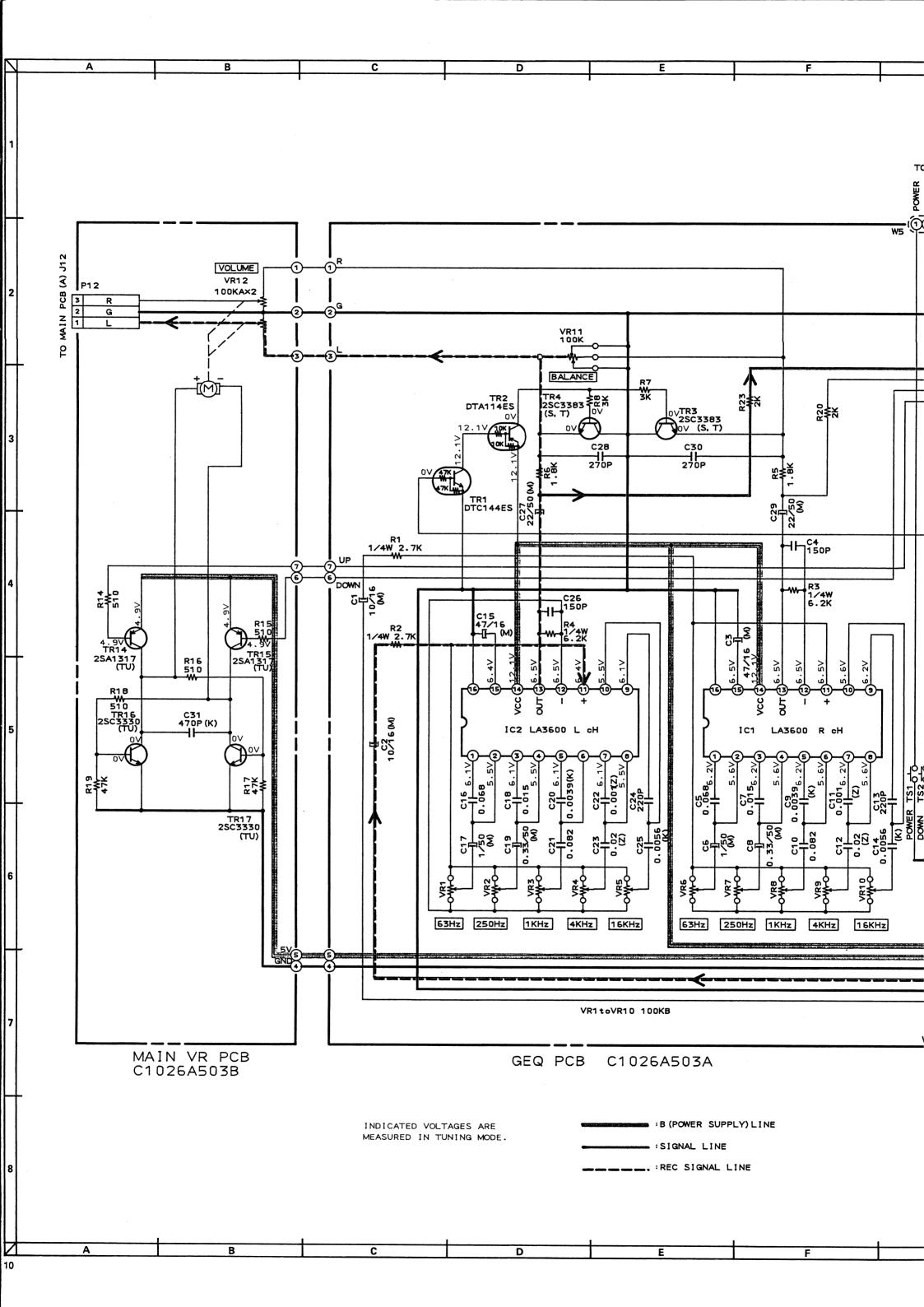
PRINCIPAL PARTS	LOCATION	
ICS	TRANSISTORS	
IC1A5	TR1H5	TR48D1
IC2D6	TR2F5	TR49C1
IC3D5	TR3F5	TR50C1
IC4E5	TR4	TR51
IC5C5	TR5A2	TR52B1
IC6G6	TR6	
IC7G5	TR7	TR53B1
IC8F5	TR8F6	TR54B1
IC9F6		TR55B1
	TR9F5	TR56B1
IC10D4	TR10E6	TR57B2
IC11C3	TR11E5	TR58B3
IC12B4	TR12D4	TR59G2
IC13C2	TR13D3	TR60G4
IC14F2	TR15D3	TR61G3
IC15G3	TR16B2	TR62G4
CONNECTORS	TR17E4	TR63G2
J1	TR18E3	TR64F4
J2B6	TR19D4	TR65F3
P1	TR20D3	TR66F4
P2H1	TR21D3	TR67G4
Р3н3	TR22E3	TR68G2
P4	TR23A3	TR69G3
P5F1	TR24A3	TR70F4
P6E1	TR25B2	TR71F4
P7H2	TR26C5	TR72F3
P8D2	TR27C4	TR73G1
P9A3	TR28A4	TR74G2
P10A2	TR29A4	TR75G2
P11E3	TR30A3	TR76G1
P11E3	TR31A3	TR77G1
	TR32D3	TR78G1
	TR33E3	TR79G1
	TR34C2	TR80G1
	TR35C2	TR81G2
	TR36C2	TR82G2
	TR37C2	TR83G2
	TR38B2	TR84H5
	TR39B2	TR85B1
	TR40B2	TR87F1
	TR41B2	TR89G3
	TR42D2	TR91F2
	TR43D2	TR91F1
	TR44E2	
	TR45E2	TR93A4
	TR45EZ	TR94A4

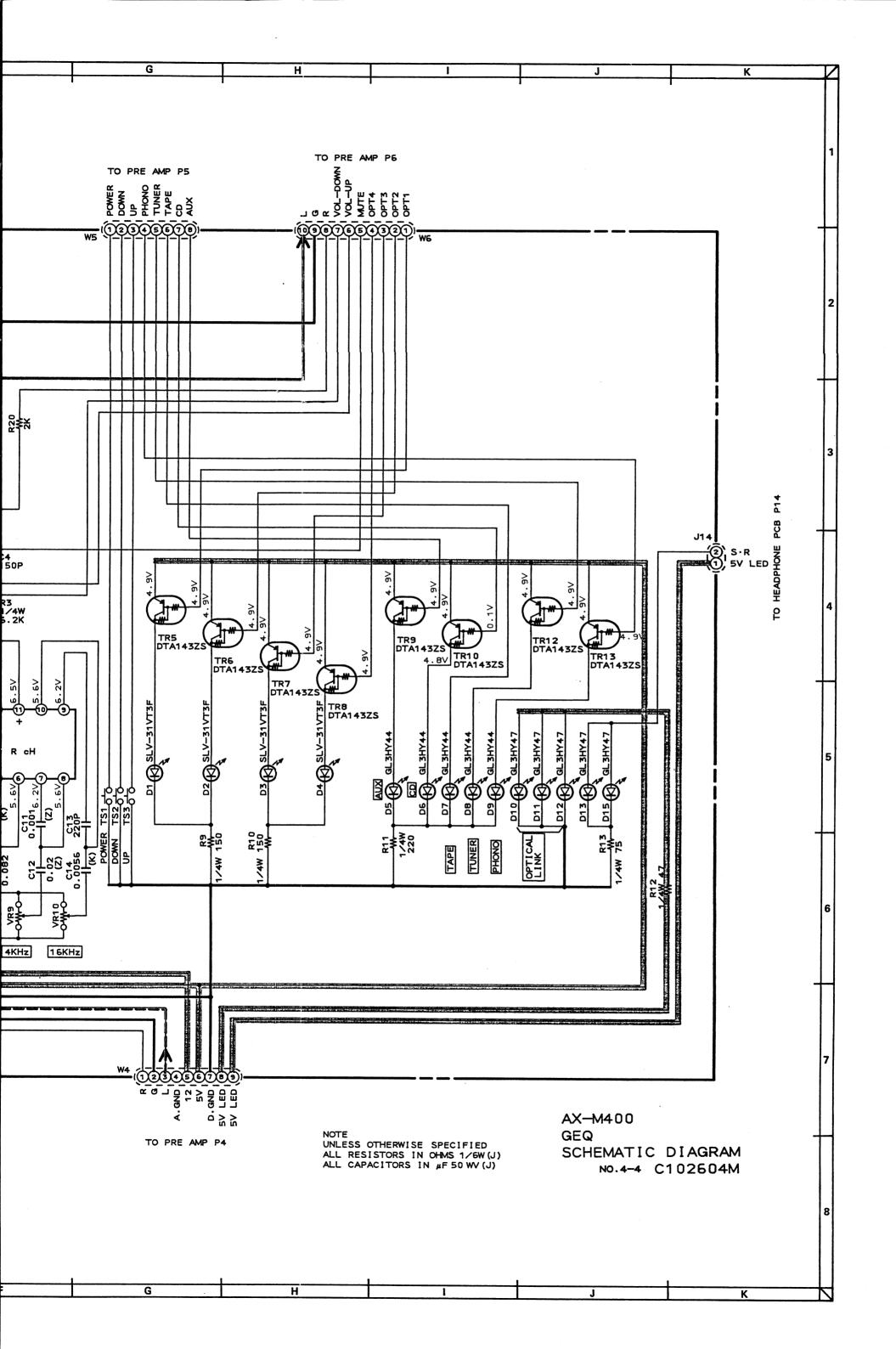
TR46.....D2

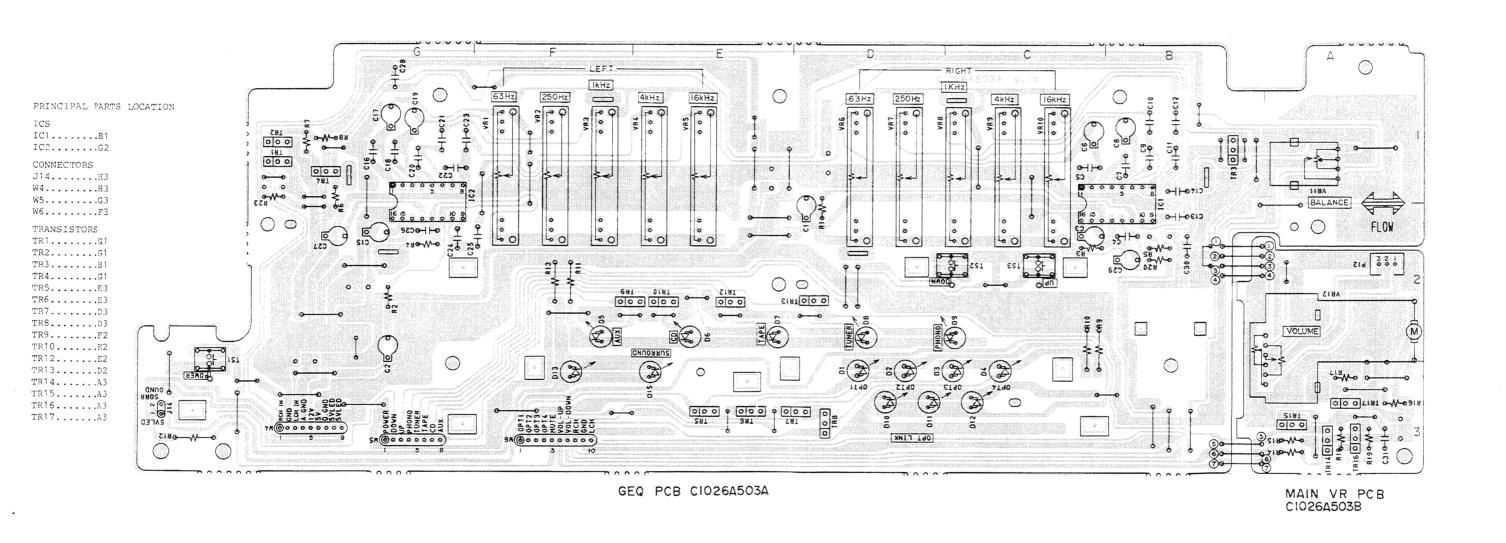
TR47.....D1

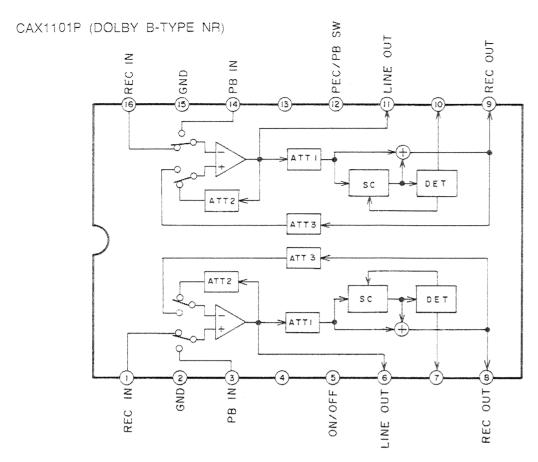
TR95.....D3

TR96....E4

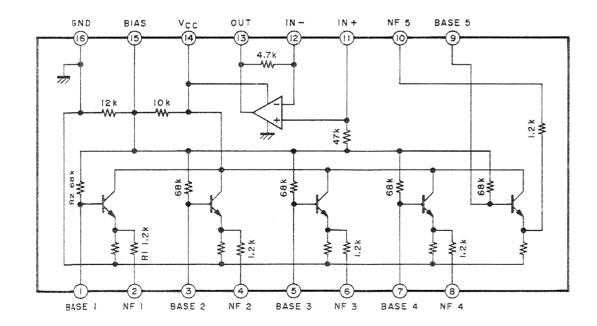




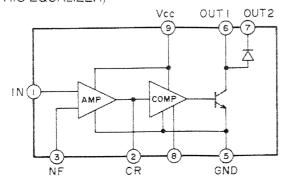




LA2000 (AUDIO LEVEL SENSOR)



LA3600 (5BAND GRAPHIC EQUALIZER)



PD0052 (DIGITAL AUDIO INTERFACE RECEIVER)

PIN NO.	SYMBOL	1/0	DESCRIPTION	
1	IN 1	and a		
2	IN 2	P. App	Digital Audio Interface signal input	
3	IN 3			
4	S 1	9.444	input select 1.	
5	S 2	****	Input select 2.	
6	OUT	0	Data output.	
7	TEST	ano a	TEST MODE input.	
8	RESET	4/4/4	Power "ON" Reset input.	
9	VCOINH	*****	VCO OSC Stop Control signal input.	
10	VSS	-	GND	
4.1	PCVS	BROOM STATE	External Resistor Connection Terminal for VCO.	
12	PC OUT	0	Phase comperator output.	
13	R	-	External Resistor Connection Terminal for VCO.	
14	VCO IN	*	Control voltage input.	
15	VDD 1	-	+B (+5 V)	
16	VCO OUT	0	VCO Output (384 fs)	
17	VSS 1	-	GND	
18	CA	-	Futernal Consolitor Consolitor Francisco for MOO	
19	CB	-	External Capacitor Connection Terminal for VCO.	
20	MODE	-	GND	
21	BCK	0	Bit clock output.	
22	DATA	0	Data output.	
23	LRCK	0	Data output. (H=L ch, L=R ch)	
24	COPY	0	Copy inhibit information output.	
25	EMPH	0	H: EMPHASIS	
26	ERR	0	H: Parity Error, L= NO ERROR	
27	48 K	0		
28	44.1 K	0	Sampling Frequency data output. L=active	
29	32 K	0		
30	VDD	-	+B (+5 V)	

SM5807EP (4 FS OVER SAMPLING FILTER)

PIN NO.	SYMBOL	1/0	DESCRIPTION
1	XT	1	X'tal OSC input.
2	XT	0	X'tal OSC output.
3	CKSL	derror	H: 16.9344 MHz L: 8.4672 MHz
4	СКО	0	Clock output.
5	LRCI	1	Clock input.
6	DIN	1	Serial data input.
7	B CKI		Bit clock input.
8	VSS	-	GND
9	SCSL	BANNA	H: 192 fs L: 196 fs
10	DGR	0	R ch signal output.
4	DGL	0	L ch signal output.
12	D OUT	0	Serial data output.
13	WDCO	0	Control clock output. (352.8 kHz)
14	LRCO	0	Control clock output. (176.4 kHz)
† 5	BCKO	0	Bit clock output.
16	VDD	_	+B (+5 V)

ABBREVIATIONS (CASSETTE)

ABBREVIATION	EXPLANATION	ABBREVIATION	EXPLANATION
AC	Alternating Current	MIN	MINute
A/D	Analog/Digital	MML	Maximum Modulation Level
AF	Auto Fader	MOL	Maximum Output Level
AMP	AMPlifier	MPX	Multi PleX
AR	Anti Recording	NC	Not Connected (No Connection)
AT BIAS	Auto Turning BIAS	NFB	Negative Feed Back
ATT	ATTenuator	NORM	NORMal
BAL	BALance	NR	Noise Reduction
BEF	Band Elimination Filter	osc	OSCillator (OSCillation)
BSS	Blank Search System	P	Pulse
CAP M	CAPstan Motor	PB	Play Back
СН	CHannel	QMSS	Quick Memory Search System
COMP	COMParator	QR	Quick Reverse
CONT	CONTinuance	R CH	Right CHannel
CRLP	Computer Recording Level Processing	REC	RECord (RECording)
cs	Chip Select	REV	REVerse
D/A	Digital/Analog	ROT	ROTation
DC	Direct Current	REW	REWind
DET	DETector	SEC	SECond
DISCRI	DISCRIminator	SELE	SELEctor
DUB	DUBbing	SENS	SENSitivity
EQ	EQualizer	SEPP	Single Ended Push Pull
FF (or F.FWD)	Fast Foward	SIG	SIGnal
FLD	FLuoresent Display	SPECT	SPECTrum
FREQ	FREQuency	STD	STanDard
FWD	ForWarD	sw	SWitch
GND	GrouND	SYSCON	SYStem CONtrol
н	High	TP	Test Point
HPF	High Pass Filter	TRIG	TRIGa
IND	INDicator	VCA	Voltage Control Attenuator
IPLS	Instant Program Location System	VOL	VOLume
L	Low	VOLT	VOLtage
L CH	Left CHannel	VR	Variable Resistor
LED	Light Emitining Diode	X'TAL	cysTAL
мемо	MEMOry	X1	Normal speed
місом	MicroCOMputer	X2	Dubble speed

11. FINAL ASSEMBLY

Ref.No.	Part No.	Description
1	SP-390585M	PANEL FRONT
2	SE-394092M	REFLECTOR
3	SE-390574M	FILTER (A)
4	SE-394089M	FILTER LED X
5	SE-390575M	WINDOW(A)
6	SE-394091M	PLATE ORNAMENT
7	SE-395101M	DECORATION PLATE CENTER(A)
8	SE-390577M	DECORATION PLATE CENTER(B)
9	SE-390578M	PLATE FOOT AX
10	ZW-394496J	CANOE CLIP NO.74
11	SE-394190M	PLATE FOOT
12	SA-394136M	CUSHION FOOT
13	SZ-390612M	NC LATCH LA-1
14	SP-394081M	LID PANEL(L) X
15	SP-394078M	LID PANEL(R) X
16	SE-394090M	PLATE WINDOW
17	ZG-394158M	SP PLATE CASSETTE HOLDER
18	SE-394119M	LENS OPTICAL
19	SK-394133M	BUTTON POW
20	SK-390581M	BUTTON SELECTOR
21	SE-394085M	LENS DUB
22	SK-390584M	BUTTON OPERATION
23	SK-394084M	KNOB SLIDE
24	MZ-380875J	DAMPER 1G88-L
25	ZG-395934M	SP TORSION EJECT(L)
26	ZG-395935M	SP TORSION EJECT(R)
27	BB-394690M	MECHA GAK-5PB-1
28	BB-394691M	MECHA GAK-5RP
29	SK-390582M	KNOB SURROUND
30	SA-394127M	FOOT REAR
31	SK-394097M	KNOB VR
32	SK-394131M	KNOB TONE
33A	*BT-394692M	TRANS POW C1026-U
33B	*BT-394693M	TRANS POW C1026-EV
33C	*BT-394695M	TRANS POW C1026-BS
34A	SP-390589M	PANEL REAR AX-M400(U)
34B	SP-390590M	PANEL REAR AX-M400(E)
34C	SP-395850M	PANEL REAR AX-M400(V)
34D	SP-390591M	PANEL REAR AX-M400(B,S)
35A	*EW-374894	AC CORD 2C VM-0129A,VFF U/T [U]
35B	*EW-347897	AC CORD 2 CORES VM0364,LCFL EV
35C	*EW-346249	AC CORD 2 CORES LCFL2X0.75 B
35D	*EW-347898	AC CORD 2 CORES VM-0436,LCFL S
36	*ES-349070	SW SELECTOR YKS11-0002 02-4
37	*EZ-371605	BUSH CORD 2271
38	SC-390588M	COVER UPPER

NOTE:

Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

12. ACCESSARY

Ref.No.	Part No.	Description
1	AX-394557M	REMOCON RC-S600

ABBREVIATIONS (AMPLIFIER)

ABBREVIATION	EXPLANATION
A	Analog
AC	Alternating Current
AMP	AMPlifier
CD	Compact Disc
СОМ	COMmon
D	Digital
D/A	Digital to Analog
DAC	Digital to Analog Converter
DAT	Digital Audio Tape recorder
DC	Direct Current
GND	GrouND
L	Left
LED	Light Emitting Diode
MC	Moving Coil
ММ	Moving Magnet
PCB	Printed Circuit Board
R	Right
REG	REGulator
REC	RECord
TR	TRansistor
sw	SWitch
V.AMP	Voltage AMPlifier
V.DISC	Video DISC
VR	Variable Resistance
VTR	Video Tape Recorder